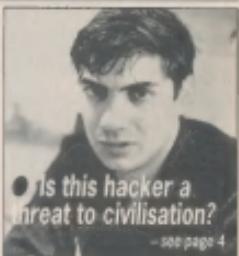


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NEW COMPUTER EXPRESS

First news, first reviews - every week



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Code Masters baits Alternative



• David Hockenforth weas

Company lawyers were licking their lips last week as yet another round of squabbling broke out in the budget games world.

Experienced litigants Code Masters wants civil company Alternative to withdraw all copies of its latest title *Formula One Grand Prix* immediately. Code Masters says the game takes advantage of its own title *Grand Prix Simulator* because the game's packaging artwork is too similar - and it has threatened legal action if Alternative doesn't comply promptly.

This isn't the first time these two companies have clashed. Earlier in the year Code Masters was obliged to print an apology in the trade press after running an ad pointing out Alternative.

David Darling, Code masters' 21 year old managing director accused Alternative of "theft of intellectual property". He added grandly, "Hockenforth we reserves the right to act, without notice, with the full force of the law, against anyone who imitates our products."

Alternative's boss Roger Hulley branded the Coders as "vile". "It's just a joke," he told Express. "This is just a case of publicity seeking." He pledged that he would be fighting any action.

"It would have been better if they had at least called us with their complaint. As it is I heard this from the press. But we've never been names and never like Code Masters."

Code Masters claims that the picture of a Ferrari on the pack of Alternative's game is a direct copy of its own packaging. On both games the car is numbered 27. Code Masters is privately dismissive of the Alternative game and thus fears that gamers will mistake it for its own title.

Laugh? I nearly didn't

Computer companies are hardly renowned for possessing any sense of humour but at least one firm has made an attempt.

An American software house has launched a super-low-cost word-pro-

cessor (just ten bucks a box) entitled *NeverPerfect*. The box itself is said to be neatly designed, but opening it reveals the naked truth: it doesn't actually contain a disk.

This, the firm reasons,

makes the perfect humorous Christmas stocking gift.

Oh how the computer user will roar with laughter when they look into their festive stockings.

Meanwhile the marketing

boys who dreamt up the idea will be snatching off to the bank clutching their sides.

And the name of this enlightened software house? Vapeurware. Very cool, folks.

Comdex launch for the Amiga with PC power

2000 AT: COMMODORE'S DOUBLE-EDGED BLITZ

An Amiga 2000 which can be switched to PC-AT mode is soon to be unleashed in Britain. And established Amiga owners will be able to upgrade their own machines.

The new model will offer users the best of both worlds: Amiga graphics power and the ability to run the huge range of PC business software with all the power of a PC AT.

Commodore's top brass in the UK are keeping tight-lipped about the developments but it is known that this machine will be spearheading the company's range in 1989. A fully fledged launch at the Winter Computer Show early next year is thought most likely.

Commodore is believed to be aiming for an "ideal" entry level price of £1,600 although the machine may cost more than that initially. As yet no prices are available for the A1200 upgrade to existing Amiga 2000s which will be supplied as a slot-in bridgeboard.

Both the full machine and the bridgeboard were unveiled at last week's huge Comdex show in Las Vegas to a reportedly good reception.

Sources suggest that Commodore is planning a staggering ad spend of £1 million for the first few months of next year on the 2000AT alone. The firm's feeling is that PC owners want the A2000's graphics capabilities but



• Amiga 2000 AT compatibility next year

are reluctant to buy an Amiga because that would render their software useless.

"We want to protect the investment people have already made in MS-DOS software," said Commodore's Dean Barrett. Last summer Commodore flagged an Amiga with a less powerful PC-XT bridgeboard. That has rarely been seen and was given only limited publicity.

Commodore knows that the 2000AT's price must be kept down.



• For the computer user who has everything: a designer mouse. It's been created by Logi to celebrate its reaching sales of a claimed two million of the ordinary type.

The tatty three-button beastie has a see-thru case offering the unique opportunity of seeing "all the works in all their glory". So with your very own eyes you can observe the dirt accumulating on the mouse's rubber roller. As is usually the case with such plays this is a "limited edition" with a price tag to match: £99. Call Logi on 0525 222211

Feeling in the trade is that such a move - priced in the £1,600 area - will do well.

The A2000 has proved to be a success in graphics environments. Commodore's hope is that now the general business fraternity will take it on. At the moment the machine costs £1,350 for CPU and keyboard and £1,500 with a colour monitor.

Although it has not been confirmed, the likelihood is that a 5.25" disk drive will be part of the 2000AT.

...Unix option looms

Rumours are rife that an A2000 with Unix compatibility is also on the cards from Commodore. That though is likely to be further into the future. A separate add-on should also be available for existing owners of the A2000. No details or prices are available yet.

Free Workbench upgrade?

The long awaited upgrade to the Amiga's Workbench operating system could be given out free to thousands of users.

Commodore brass are currently contemplating supplying the new software (version 1.1) through cover disks on 1.44mb cartridges such as ST doing a Faronic.

Readers should be able to send off for the manual and a utility disk for about £20.

Other ideas are also being considered, but are Amigas will automatically be supplied with the new software.



* Aries as it is now: upright disk drive to be offered soon

Upright disk drives and year. They save space on the sophisticated security systems are being offered by PC the desk and tidy up clutter at the back of the PC.

Aries PCs will also be protected with digital number security systems as opposed to physical locks. Buyers will be issued with a personal number at purchase.

"It's a more effective way of securing your PC," said Watford's boss Neil Jesus. "You

enter the IDP number and the machine starts."

Jesus was keen to stress that no price increases would be devised in. The Aries range was only launched this summer with entry level prices of £499 the XT and £799 for the AT286. Watford - formerly entrenched in the Acorn market - has pitched its PCs directly against Amstrad.

So called tower systems were first introduced by IBM as an answer to the problem of huge drives taking up desk space and wires sprawling over a work-space. They can be used under a desk.

Towers usually cost more than standard drives and haven't yet proved to be the runaway success many had predicted.



OUR OPINION

Turning Japanese

In much the same way that precious few British computer companies have ever made that much of a splash in the States, so hardly any micro firms of any nationality have succeeded in Japan. And now comes news of the EA shutdown.

The reasons, superficially, are simple to rattle off. There are ideological, sociological, political, structural factors that make Japan a world apart when it comes to trading. Its insularity breeds content internally, but that makes it mighty difficult to crack for any Brit or Yankee firm. EA is but the latest in a long line to have to say so.

The converse doesn't apply. The conventional view is that the British and Americans dominate the entertainment industry. But they don't. Nintendo records profits greater than the worldwide turnover of all the other leisure software publishers put together. Then there's the tidy contributions made by Sega, Taito, Capcom, Konami and all the rest.

Quietly, carefully, the Japanese have taken the commanding heights of the leisure world, and pretty much precluded the opposition in its home patch in the process. Over four years after the embarrassing flop of MSX, the sun is rising to the East with a vengeance.

It all goes to show...

With a bigger ramp-up than ever before, with more interest in the Amiga than Hibberts, you'd expect that last week's Commodore Show would have had record attendances. Partiers no doubt would have filled the Novotel's sunbathing pool, traffic would clog the environs, a state of emergency would have to be declared in Kensington - that sort of thing.

But think again. Attendances were down, disappointing, below average, or whatever euphemism you care to use. Possibly that's because the Amiga is now so well established that people know what they can do with it. Possibly there's less need for the show now that so many Commodore magazines have got their acts together.

More likely, partiers were put off by the show's £5 price tag. Database: think again.

Not so weakly

From our initial sales figures, New Computer Express would already appear to be Britain's most popular computing weekly. For that, many thanks.

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Watford's Tower

JAPAN TOO TOUGH FOR EA

Electronic Arts has quietly abandoned the Japanese beach-head it established only six months ago.

A development and sales team of around ten had been in place there in order to convert EA's software to Japanese characters and to take advantage of a predicted boom in PC sales. As it turned out, the PC did not become as prominent as EA had hoped. That though was only one reason for the pull out.

MORE MEGS PER BUCK

Atari's new 30MB Megabyte hard disk drive for the ST will cost £1000 when it reaches the UK - the same price as the current 20MB drive.

However, Atari wants to get rid of stacks of the old drives before it shifts in the new version. How many of the 20MB versions are hanging around is not being revealed but supplies should have dried up by the New Year.

The high cost of hard disks drives on the ST has long been a bone of contention for serious minded ST users.

"It no longer makes sense to have development teams here in California and in Tokyo," commented EA's Mark Lewis. "There was a lot of time spent in between and it's hard to control things if they are remote."

"We thought that the move towards PCs would be faster than it was. Unfortunately, things don't happen to cater for a single company's needs."

"Chuck Yager did well over there but other titles which reflected Western culture didn't do so well. It simply takes time."

EA's presence in Japan was never as large as here or in the US. The

company will continue to export titles to Oriental countries.



* Lewis: Japanese retreat

It's a Miracle! A QL hard drive

GL owners have long to wait in the region of £480. Miracle was left out in the cold when it comes to hard disk drives.

But Miracle is currently bewailing away on a 30MB offering for the machine which is likely

son is confident there will be taken. "I need somewhere that there are 120,000 GL users in Britain," he said.

But Miracle is aiming for a more realistic sales figure of "a few hundred".

Developer Mike Tamkin

has lots of money to spend on hope and we know that people loved Trackball on the Spectrum and C64. We expect it to be a challenger," said partner Garry Matthews.

Although Goliath published the 8MB version it has handled the 16MB job over to the Alternative, says Mike. "It's a 16MB 8-bit machine at the end of the summer and surprised the world outside Goliath by reaching number one in the #1000s Games chart. It's still hovering around the top ten."

"We know the big companies

stronger than ST games are around £5 cheaper than Amiga games."

A Commodore person just about managing to convince himself,

"Costs are getting higher and that's why we're promoting £2.99 games. £1.99 is a solid basis for us and we'll be sticking with it for a few years yet."

Alternative's Roger Hailey responded



* Trackball Manager: Amiga biggie?

Goliath versus the giants

Shoot from the Lip... www.1000s.com (most quotable sayings)

"It's a brutal fascist regime stopping simple software coming in. The closest you get to seeing anything in the game is to your head."

Precision's Paul Burgess after the Pern Squadi confiscated a batch of *Sex Knights from Space* at Heathrow airport.

It's a sign of the Amiga market being

stronger than ST games are around £5 cheaper than Amiga games."

A Commodore person just about managing to convince himself,

"Costs are getting higher and that's why we're promoting £2.99 games. £1.99 is a solid basis for us and we'll be sticking with it for a few years yet."

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AMIGA the word processor

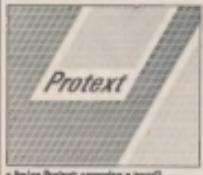
UK software houses have been accused of ignoring the Amiga as a viable word processor.

Amiga is making the claim in the week that it launches the Amiga version of its popular Protext word processor. The firm reckons that UK companies haven't recognised the machine as a business tool. "Most of the word processing packages have been imported from the States," explained Amiga's Douglas Thompson.

He added: "I think UK software houses have seen problems with the disk drive and hasn't bothered to pursue." Amiga itself had a few blunders in development. Programmes were coming up against virus contamination and lasting days of work.

"They come across corrupted data," said Thompson. "But I haven't seen any problems as the final product." Protext costs £99.95 and is already available on the ST, PC, and Amiga CPC and PCW machines.

Amiga is on 0733 239021. Review of Amiga Protext next week.



* Amiga Protext: rendering a treat?

AMIGA the video machine

Video and laser disk drives are being pitched with a new interactive media authoring environment which can control VCRs and laser disks via an Amiga.

Although evidently a complicated and new area the use of video on computers is becoming popular in the US and is reaching the UK. British firm Microdel has now launched its Viva program which can generate interactive video and laser disk programs with the added bonus of acting as a VCR remote control.

Viva was shown at last week's Comdex show in Las Vegas to a reportedly good reception. With a price tag of £399 Microdel reckons it will be put to best use by educationalists, enthusiasts and businesses.

WAR SECRETS HACKER COMES CLEAN

High profile hacker Edward Anatoli Singh has gone to ground after being hounded by the "seasationalist press".

However, he has detailed his future plans to Express now that police charges against him have been dropped. Singh is now working on a system to help large organisations and companies secure their data more effectively.

Singh came to the fore last month after it emerged that he had been hacking into British and US defence systems. He was caught after offering advice to the organisations which he had "cracked" and was investigated by the Serious Crimes Squad and US

officials. Charges were dropped mainly because he had done nothing illegal.

"I've decided to stop giving interviews and to concentrate on my serious activities," he said. "The only reason why I've been doing this is because I'm concerned about computer security."

Singh will be emerging with the framework of a security system in the near future. "Hacking isn't an end in itself," he said. "There has to be someone who can do more than produce lightweight security systems."

"The press appears to be more interested in the sensationalist side of



* Singh: Now working for the system

what I'm doing rather than what I hope to achieve," he said.

New life for dead Speccies

Building computer repair firm VSE reckons it's worth doing document Speccies users back to computing.

The South London business - set up recently by two youthful entrepreneurs - claims to be liaised with Spectrum owners wanting their machines fixed.

"So many of them haven't used the machine in three years," said partner Tim Morris. "When they went wrong the machines were thrown in the cupboard."

Building them for people who want something to do in the coldest months.

"We've been so busy fixing 8-bit machines that we've had to ban STs, Amigas and PCs. We're such a small company that it would be impossible to take any staff on yet."

VSE was set up partly thanks to the South London business initiative and a large financial backer which funds such enterprises.



* VSE duo: Ian Vandyke (left) and Tim Morris

The charges for getting your machine fixed at VSE range from £12.90 for a bottom of the range Spectrum to £31.90 for an Amstrad PCW. More details on 01 738 7707.

Watch it, Mac, you've been touched up

Variously computer companies were once again pulled up by the Advertising Standards Authority last week - mainly for the potential problem of product unavailability.

Despite numerous requests from the ASA that manufacturers stop advertising products before they're finished, complaints still come through from inside

members of the public.

Variously companies were pulled up for inaccuracies. The largest was Apple, which gained a slap on the wrist for claiming that one of its ads had been completely produced using Macs. A complainant argued this as being untrue. The ad had been touched up with more expensive peripherals.

Z88 zooms into Europe

A spin-off of its Japanese subsidiary is venturing into the European market. Its Z88 portable has just been shown in Germany and a first batcher is being shipped over. Also a Spanish launch should be under way before the end of the year. This will effectively make the portable available throughout Western Europe. The machine is available in the US and Australia and South Africa (in being signed a distributor for next year). Computer-reviewed Express (not even it's issued there as Z88) is the first Z88 sold for £1,000.

* Z88: World view

Snippets

Anything to sell a disk

Manufacturer Maxell is offering a free Electronic Arts game - *400 Attack Disk* - with each pack of ten 3.5" floppies intended for the Amiga and the ST.

Unfortunately, the offer will only run because it costs a premium in America.

Special K pack offer

Owners of Kuma's K-Spreads 1 and 2 for the ST can upgrade to version 3 for £95 and £100 respectively. Otherwise the spreadsheet costs £39.95.

Newsbytes goes daily

Newspaper, the "electronic newspaper" will be giving daily news via New Year.

Currently a weekly, the service which is funded by Telecom Gold and Minitel is also undergoing a redesign in order to make it a little easier to read.

Eastern promise

Following on the basis of a patent deal with IBM, Taiwanese firm Mitac has unveiled its new range of 200, 300 and 500/520 machines. Thus far only the 200s have been priced. They'll cost £1,099.



• Gold's Xmas box of goodies

Money in the Making

Complaints-mad US Gold has come up with a chocolate box style compendium containing 15 games from its past years.

All the games included have charted (and quite a few of them have already appeared on at least one compilation). Titled *History in the Making*, the compendium boasts the likes of Beach Head, The Goonies, World Games, Gauntlet and of course *Leisureland*. Gold reckons the games have sold around 2,500,000 between them.

Available on the Spectrum, C64 and CPC, the five-tape box costs £15, with disk versions £30.

HEARTWARMER!

Software houses unite for kids

The fourth games industry charity compilation will be appearing next Easter - and autistic children will gain from the proceeds.

Software houses in the UK are currently using wood into subventing decent games for the compendium. It is hoped that the full line up will be announced at the industry's Christmas bash in London. Addison, Ocean and US Gold are likely to make contributions.

Prominent software charity efforts have included Soft Aid which raised £350,000 for the starving in 1985. That still holds the record for the longest running College number one charting up 16 weeks. Off The Hook (no fight drug abuse) was founded in '86' raising £30,000 and then the comparatively disappointing *Kids Are The Year* which is said to have tipped the £50,000 mark. That effort was dogged by delays and abated wrangles

between software houses.

A March launch is most likely since that will avoid the pre-Christmas flood of attractive games. Software publishers will have more time to prepare a compilation in the early months of next year rather than in the summer.

The National Autistic Society will receive all profits. That charity was chosen for two reasons. "It's obviously related to children in the main," explained Mediagenics boss and charity organiser Rod Cousins. "There's also a guy called David Rovre who has done a lot of work for different software houses and has a two year old son, called Alex, who is autistic. It's a cause of human interest related closely to the industry."



• Cousins: Helping hand

Cascade dangles dongle at pirates

Fresh reports of the imminent death of the software pirate have reached our ears.

Cascade Games is developing a dongle - a device which plugs into a computer port and whose presence is verified by a program before it will run. The only way to pirate a piece of software supplied with a dongle - apart from stealing the dongle itself - is to isolate and rewrite the part of the program which

does the checking.

The new dongle will be offered to software houses hoping to float the code hackers. According to an epistemic Cascade games writing the dongle will be so hard to crack that hackers will "chew up their area in dust". This, however, is not the first such claim.

"Piracy is rife and any software house ignoring it is doing so at their peril," said

Cascade boss Nigel Stevens. "This will take games hackers so long to crack that by the time they succeed it won't be worth it."

He added that even if a hacker cracks one game it won't necessarily help him on his next venture. Stevens though was careful not to give any further information away. "We haven't named it yet and I don't want to say too much."

The dongle will be mainly

for use with 16-bit games. Stevens doesn't think 8-bit titles are worth protecting.



• Stevens: Pirates beware

Battle of the 16-bit ad-men



• Amiga owners (proud as they are of their machine's graphics capabilities) must have been astonished at Commodore's latest television advertising extravaganza. Graphics displayed on the Amiga's screen would have taken thousands of pounds worth of video kit and paint packages to produce, perhaps slightly beyond the budget of a typical buyer.

The dazzling high tech graphics are, says Commodore, an attempt to break the mould of normally dire computer ads. Not a reference to Commodore's famous elephant, surely?



• This exceptionally aggressive line from Atari is the attempt to make the suit clad millions think twice before splashing out on an IBM. PCs have never been Atari's strong point and the firm is setting aside a fair whack (i.e. £100,000 on this ad followed by £2 million in the national press next year) in the hope that the business fraternity will be swayed from opting for the "safe" IBM option.

The ad blitz will culminate in the Which Computer? Show early next year when Atari will be praying for big orders.

GAMES TOP TWENTY

FULL PRICE

1	Last Ninja 2	£39.99
2	Section, C64, CPC	
3	Football Manager 2	£29.99
4	Section, C64, ST, Amiga, PC, CPC	
5	Daley Thompson's Olympic Challenge	£29.99
6	Section, C64, ST, Amiga, CPC	
7	Out Run	£39.99/£29.99
8	Section, C64, ST, CPC	
9	Turbo Challenge	£29.99
10	Section, C64, CPC	
11	Return Of The Jedi	£29.99
12	Section, C64, ST, CPC	
13	1943	£19.99
14	Section, C64, ST, CPC	
15	Road Blasters	£19.99
16	Section, C64, ST, CPC	
17	Peter Beardsley's Football	£29.99/£19.99
18	Section, C64, ST, Amiga, CPC	
19	Track & Field Manager	£29.99
20	Section, C64, CPC	
21	Gold Silver And Bronze	£14.99
22	Section, C64, CPC	
23	Gunship	£29.99
24	Section, C64, ST, PC, CPC	
25	Typhoon	£29.99
26	Section, C64	
27	Target: Renegade	£19.99
28	Section, C64, CPC	
29	Pacmania	£29.99/£19.99
30	ST, Amiga	
31	Bord's Tale	£29.99
32	Section, C64, CPC, ST, Amiga, PC	
33	We Are The Champions	£29.99
34	Section, C64, CPC	
35	Elite	£29.99
36	Section, C64, ST, BBC, Electron, PC, HDPC	

GAMES TOP TEN

BUDGET

1	Jet Strike 2	£49.99
2	Section, C64, BBC, C16, Electron, CPC	
3	Bomb Jack	£19.99
4	Section, C64, C16, CPC	
5	Footballer Of The Year	£19
6	Section, C64, BBC, Amstrad, C16, HDPC	
7	End Zone	£19.99
8	Section, C64, CPC	
9	Quartermaster	£19
10	Section, C64, BBC, Amstrad, CPC	

Small figures = last week's position
PC = personal computer
HDPC = high density personal computer

COMPILED BY GALLUP

Mirrorsoft claims ST supremacy

If Mirrorsoft is to be believed then more than one in five ST owners in the UK have bought Dungeon Master.

The game is alleged to have sold 30,000 copies since it was launched early last summer. Mirrorsoft has always maintained something of a high profile in the ST arena. The firm is calling Dungeon Master the best selling and most enduring ST game yet.

Last week the game picked up the Happy Computer award in France for Best Adventure with Mirrorsoft walking away with a total of four gongs. Tertia won two (Best Strategy and Most Original game) and Falcom was honoured with Best Simulation.



+ Vision: Another Amstrad basher

Vision PC takes on Amstrad

Yet another Amstrad-bashing PC went to extinction on the shelves soon courtesy of Vision Technology.

The Advent XT-10 costs £795 and runs at 10MHz with colour monitor, 640K of memory and a 35MB hard disk. A £1,000 XT is also to be launched with the bold claim that it's the fastest of its kind anywhere. An additional £200 will buy an 80A colour monitor.

Vision doesn't appear to be bothered that the machine is absolutely crammed with low-cost PCs of all shapes and sizes. 'Who-else else can offer this sort of price and performance?' cautions the Vision line. I can't think of anyone who offers 30MHz storage at £795 with one year's free on-site maintenance.'

Vision Technology has been around for some time now supplying to the likes of Olivetti, Compaq and Tandy.

Apple's judge dread

The highly publicised 'look and feel' case which Apple has brought against Hewlett Packard and Microsoft has taken a curious twist.

Apple asked that the judge, Robert Aguirre, be removed from the California

case when it emerged that his son works for Hewlett Packard. Whilst Aguirre insists that his son's employment has no bearing on the matter he has been replaced.

The look and feel case has attracted interest in all

Murdoch takes Sugar

In their latest link up, media magnate Rupert Murdoch has called in Alan Sugar's firm Amstrad to produce a low-cost micro-based smart card desynchroniser for subscription satellite television.

The card is to be designed by Amstrad technicians and produced by British firm Paytel. It uses microchips to decode scrambled satellite TV channels paid for by subscribers - they will receive a new card once a month costing around £10.

Amstrad is of course already closely linked to Murdoch's TV plants. It is producing a £200 satellite dish to access Murdoch's four channels.

£10 off Beebulator

In a further attempt to get a foothold in the education market, Commodore has put forward a special offer as its new BBC emulator for the Amiga.

People involved in the education establishment can get a beebulator knocked off the normal price of £49.95.

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Locopost	18.50
Mail Merge	18.50
Database	28.60
Database II	77.00
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Locomail	25.00

PC 1640

Single Mono	520.00
Double Mono	673.00
Single Colour	667.00
Double Colour	820.00
Single ECG	814.00
Double ECG	905.00
25Mb Hardrive Mono	977.00
25Mb Hardrive Colour	1124.00
25Mb Hardrive ECG	1270.00
1640 + 32Mb Hardcard add £300	

DESK TOP PUBLISHERS

Desktop Publisher + Mouse	68.50
Desktop Publisher	37.50
Newspack International + Mouse	77.00
Stop Press + Mouse	77.00
Fleet Street Editor	59.95

PPC

PPC 5125	430.00
PPC 512	522.00
PPC 4855	516.00
PPC 4840	610.00

PCW

6526	270.00
6512	470.00
9512	520.00

RIBBONS

8256/8512 Fabric	3.50
8256/8512 Calson	4.75
8256 Multi Strike	3.90
DMP 2000	2.60
DMP 4000	5.25

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ACCESSORIES

Mouse Mat	4.50
Surge Protection Plug	14.95

DISK BOXES

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3" 48 capacity	8.95

PCW ACCESSORIES

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RS 232 Interface For 8020 Series	62.00

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11 x 14.5 60 gsm	18.50
A4 80 gsm	22.00
11 x 8.5 60 gsm	16.00
11 x 8.5 60 gsm	20.00

PRINTERS

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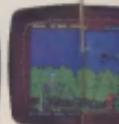
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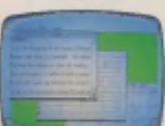
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Screenshots taken from ATARI ST

Screenshots taken from SPECTRUM

ROM for improvement

CD-ROM is one of those quirky (and brilliant) ideas which isn't likely to do anything impressive for a good decade. Currently it is suffering from a good deal of poking and prodding from the technical fraternity but the fact is that as a mass-market device it's got a lot of growing up to do.

Atari's C225 CD-ROM player may be the catalyst to break the vicious circle of hardware waiting for software and software waiting for hardware which pervades with all new technology. By launching the thing with the ability to play audio CDs, Atari can rest assured that computer purchasers will have something to do on the gadget in the interim before good software comes along.

For the benighted, CD-ROM is a compact disk which holds stacks of information as opposed to the bare bytes stored. Whack the completely indestructible disk into your CD-ROM drive, connect up to a PC or ST, fiddle around with some software and laaaaand behold, there's the Encyclopedia Britannica at your fingertips.

What's on offer

CD-ROM is enormously useful doing the things it's meant to. Journalists, engineers, lawyers, chemists all need piles of information at hand. The thought of a disk holding the equivalent of 1500 floppy disks, 270,000 pages of text, 5000 images or 16 hours of sound is appealing. In practical terms it's better than a study full of lovely messy books.

But even though the likes of Atari can market a CD-ROM drive for as little as £299, the disks themselves are



• Atari's CD-ROM: Will its dual function help break a vicious circle?

expensive. It costs so much an entire disk and - initially at any rate - only a certain number of people are going to be interested enough to buy it.

Market forces dictate that the fewer people buying something the more it's going to cost. So unless you all go out and buy a CD-ROM drive tomorrow it's unlikely that really useful and inexpensive databases are going to appear for a while.

At present much of what is offered is very specialised: a lot of parts for a Boeing 747, all the drugs to cure hepatitis, cases for the Crown coming home from a mortgage fraud. A more gen-

eral offering is Bookshelf from Exact Micromedia. It includes a thesaurus, dictionary, business information, biographies and literary style manual.

Eventually we might see things such as intelligent telephone directories, fax, tap in the phone number and get the address, all the hits in the pop charts for the year, ten years, read the data or call up a clip from the pop video, or an interactive way depends in which you flick instantly to the part of a subject that you really interested in.

These there are games. Much has been written about the possibility of 3D-interactive games using computer video images stored on the disk. For example a space shoot-up using video images from Star Wars. But such games are a long, long way off, largely because the creation of one would be more like producing a film than publishing a piece of software.

Nevertheless, firms such as Cambridge have long been sitting on the edge of their chairs waiting for the right technology to come along. And even the generally cautious US Geological Survey is "masking a feasibility study".

A long way off

Another games software publisher, Virgin, prefers to concentrate on CD-ROM's more serious potential and is currently looking closely at the possibilities of snapping up the rights to various databases - what they are or what they might be isn't open to discussion.

"The volume of CD-ROM drives there is today," says Bob Nick Alexander, "Even on a worldwide basis, it's take time to develop and I'd say there's not much in it for at least five years. But the technical aspect over a book means that a market will

Atari is poised to launch its £299 CD-ROM onto a bemused world. There's been plenty of talk about this new technical phenomenon but little action. Can Atari change all that?

COLIN CAMPBELL reports.

Alexander argues that just to look for one reference may well be easier in a book but to look for multiple references would be handled easily by a few such databases. "To look for, say, how many goods a player has scored over the past twelve seasons would be difficult in a book because of all the issues he may have played for. But CD-ROM would have all the data there." Virgin has an concrete plan as follows for interactive CD: "We will be decide for the沉没 people to get to grips with it."

Alexander cites a "brilliant" book from Microsoft called *The New Papaya*. It basically admits that a CD-ROM world is a long way off but puts forward arguments implying not how, in the long run, it's possible that all our fine works of literature could be on wee silver disks as opposed to books.

For Atari, technical man Tim Peters explains why the firm has dived into this new area. "It's the early bird syndrome." Well, you can play audio CDs on it. Why would you need all the data as they yet another piece of computer equipment if it plays compact discs as well?

It may be true that someone has to release the hardware before software starts trickling through. No doubt there are plenty of hardened computer users sitting on bankruptcy who are just itching for an excuse to get CD-ROM. Atari has preferred the excuse in the form of dual purpose.

But for them jumping up and down impatiently waiting for a game virtually the size of the universe - it's worth raising right at least getting used to what's on offer at the moment. The CD-ROM revolution isn't quite upon us. ■

Questions & Answers

How do I buy a CD ROM player?

Without waiting to put too fine a point on it - you've got problems. Major CD companies such as Philips and Hitachi have players but they're in the corporate price bracket. And Apple has a model - that though is only for the Macintosh.

Atari's £299 offering arrives next year and - according to the company - will be easily available. Abel reckons it'll stick more than 10,000 units by the time next year. By then you may be able to get it on the High Street. It would be foolish though to rule out dealers.

Will it work on my machine?

The standard Philips range of CD-ROM drives will work with any MS/PC386 machine without headaches. Atari's is made with the ST specifically in mind although an interface will be available to hook it onto a PC. Other machine owners may have to wait for interfaces to appear from either Atari or from third party developers.

What applications are available?

Not many and they're expensive. The Encyclopedia Britannica is a book form costs something like £3000. They're not going to sell that info on any medium for much cheaper. The very near future will almost certainly see the CD-ROM-based dictionary and thesaurus, with less general atlases appearing in the following of time.

For programmers there's a CD disk holding a plethora of manuals. Developed by Microsoft it's currently only available Stateside where it costs \$395.

How useful will CD-ROM be to me? If you need a lot of data at hand then it's a godsend.

The trick will be to know how to take advantage of it. You'll want to customise your machine and CD-ROM so that info can be found easily.

It's worth remembering that you're really only dealing with a great big hard disk drive.



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● PARTLY POLITICAL BROADSIDE

Forgive me for being a little slow in picking up your new publication. I mainly use a PC while using a BBC and PCW at work so your magazine has obvious attractions for me. I especially liked the article on graphic displays as it compared PC graphics with other machines (why no mention of the BBC?!) More such comparative articles, please.

Regarding your article on CTCs and Archimedes, surely schools have been lumbered with Acorn for long enough? Despite the obvious immorality of the principle behind CTCs it seems a pity they are unable to learn from state schools.

OK, Archies are superfast, OK, they have virtually no software written for them which takes advantage of this speed. OK, you could probably buy three PCs for the same amount it takes to get an Archie running. Apart from that, what's the news story?

The news story was the abysmal ignorance revealed by all three of your 'Voices in the debate'. The politician revealed astounding bigotry. The Head showed no understanding of IT. The industrialist seemed to think that schools should train his workforce. We already know that British industry has the worst training record in the Western world. Why do people like Alan Carter think this is the responsibility of the schools?

Is it any wonder that, despite high productivity, British industry is outperformed by its competitors when such crass opinions are expressed by those in managerial positions?

Part of the solution would be to dump all Acorn products on the Primary schools, where they belong.

Install PCs in Secondary schools. This may be lumbering. Secondary schools with a technology that is currently being superseded. It does, however, provide a way ahead. PCs are expandable. They are a more realistic technology than the currently-entrenched BBC dinosaurs.

BRI Brooks, Eastbourne

✓1. You haven't really been that slow. You're talking about Issue One. 2. The graphics piece didn't mention the BBC for the moderately valid reason that it was analysing graphics standards on the PC. 3. The abiding Acorn/Archimedes connection has doubtless caused much merriment to a certain Cambridge-based computer firm, whilst baffling or even exasperating the rest of the world. Presumably there was once a semblance of logic in the original thinking. These days, the connection is nothing short of perverse.

Congrats on your arse – we're sending you a wonderful PC package from Epyx called Print Master.

PLUS POINTS

Please could you tell me what kind of computer the Commodore Plus/4 is – e.g. an 8-bit or a 16-bit machine? And please could you tell me what I can enter games, or if I can use any other kind of games. And please tell me if I can use my computer as any other kind, if so please tell me how. A. Redmayne (no address, the shy third)

In the great scheme of things, the Commodore Plus/4 is really more of a two-bit computer than anything else. Technically, it's an 8-Bit beastie, and a pretty much dead one at that.

C16 stuff is the only other software you can run on the Plus/4, and there's not exactly a slough of them around these days. Capco Marketing on 0628 31244 should be able to help.

No, the Plus/4 cannot be used as 'any other kind' – not unless you bolt an Amiga onto the back and then throw away the Plus/4.

LAWYERS DRIVE ON

I read with interest the article by Richard Moreno in New Computer Express of November 12.

I have written to Supra in Oregon, USA, to inform them that Third Coast Technology Drives are indeed brand new as is every other component used. I have further informed them that unless a retraction is



EXPRESS

Dear Reader

Here's your chance to contribute to the liveliest, timeliest computer forum in Britain. Write to us about anything to do with computing – just so long as your letters are interesting or angry or opinionated or entertaining or, failing that, short. The week's most impressive epistle wins a mystery prize – we try to make it appropriate for the person concerned.

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Julian Rivers, Teletext Holdings, Whitehouse

✓1. Give PD Systems a call on 01-480 1130. If they're pleased to hear from you, tell 'em we sent you. If they aren't, tell 'em it was Yellow Pages.

FLARES FAIR

Hey, nice rag. Ring rings around Computer Games Week! That's enough damping with bold orange – Ed. But what happened to the Flare? Our computer was uninsured in ACE not long ago. Could we please give an update on any uninsured machines such as the ST Plus, 32-bit Amiga and the PC Engine, or at least confirm their existence? Will Flare really come back into touch?

Matty Thanks.

Mike Judd, Shorestone, Staffs

✓2. Guitars divide the Flare. Either it is an extremely exciting technological breakthrough that should set new standards for guitar machines and should be appearing at some stage in the near future, or else it is an extremely exciting sitar that will never appear in a commercially saleable form. As Flare's magazine last week, elements of Flare's work will be appearing in the new Korg console, which is a small marvel for the legions of Flare fans to get their teeth into.

Other machines: all exist and not just in the minds of their would-be sellers. Rest assured that Express will be the first to carry the details of the eventual UK launch.

DATA CHORE

By December 5th I have to find out as much information as possible on offsite B&B's: their history, what they do, and their applicability to given situations. Needless to say, the few books in my college library disappeared before the lecture had finished sloshing, and very little appears to have been published in any case. It would appear that B&B's November 1st deadline has come and gone, and so far as I have seen is an advert in your magazine quoting a price tag of £422.33.

I am studying for an MSc in Computer Studies at Norwich City College and I would appreciate any help for any areas where I

can get any). Instead of a Christmas test, we will be required to write a report – the format to be given just before the test starts – and also cope with demands for information to be given there and then, just like the real world.

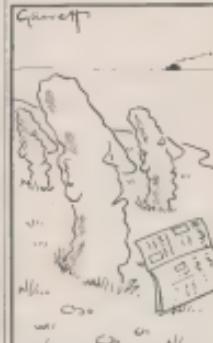
As I am just finishing an assignment on the subject of the operating system, your exploration in New Computer Express will furnish me with an extra source for the bibliography and perhaps a bit of one-upmanship. I also found it very helpful.

Long life to your new venture,

Jacqueline Davies, Norwich

✓3. One obvious line of enquiry would be to phone the firm behind B&B, Ashton Tate on 0628 33123. Alternatively, Microsoft Press (0734 291123) published a useful little number called Programmers At Work, including an interview with the original B&B author.

Aside from that, probably the most useful lesson to be learned about computing is TWR's First Rule of Software Publishing. This states that regardless of the honest intentions, the more specific a publisher is



“DON'T KNOW WHAT WE DID BEFORE NEW COMPUTER EXPRESS CAME OUT”

about the date for its next product, the move likely to be late. Usefully, it spans across the whole gamut of software firms, from budget games publishers up to the serious full-blown companies.

THE GREAT DILEMMA SCOTCHED

First off, congratulations your first issue. I have been looking for a magazine which not only covers games but also news and coverage of the whole computing scene. And weekly too!

Seemingly you're bound to get the usual letters from C64 and Speccy owners slagging off each other's computers. Can I put a stop to this before it starts? I own a Speccy +3 and my brother has a C64. They are both really good computers and, as yet, not worth paying for 16-bit machines until these are properly established and their prices have come down (both hardware and software).

Gary Chasa, Selston, Surrey

Well, that's it then, the bulk of the games hardware scene summed up in a few sentences. The Spectrum and 64 are equally good, and both are better than any 16-bit system. No doubt the vast legions of Express readers will agree.

SOMETHING I LIKE

An innocent as the day is long I slipped into my local newsagent and something caught my eye. A quick a 'Is it real?' thought 'Is this different? Yes, it was different. At first sight it looked like another magazine, but the price was - 40p. So let's give it a whiff.

I have found something I like. I purchased New Computer Express at about 17.30 today, and it is now 23.30, so I have obviously been motivated to sit down and get this database.

What I found about the magazine was a layout and presentation that I appreciated particularly to me. I do have criticisms of a minor nature that may be worth expressing, but generally I liked the price, the presentation and the balance between the articles.

I am a confirmed Sinclair addict, having been led into the discipline life through the MK14, ZX80, ZX81, Spectrum 016 the 'Fledders' design model - the one so early in the production range that it has pots and preset capacitors that can be twisted. But I also own an Acorn F2

● THE GREAT PURCHASE DILEMMA

A NOVICE WRITER...

I noticed your article for beginners in New Computer Express, and thought that this is exactly what I need. Having no experience, and no computer, I am at a loss to decide what to buy. I sit below the relevant criteria and would ask for your suggestions regarding type and make of computer.

A = Price guide - up to £300-400.

B = I am 14 and have just started learning about computers at school and I am interested in programming.

C = Games.

D = Education - I also have two sisters six and eight who would probably use it.

E = Should I get a colour monitor or use colour TV?

F = I would like a disk drive if possible within price range.

G = I use a BBC at school.

I hope you will be able to assist me in making a good choice as I find all the different computers available very confusing.

Good luck with the new magazine, I'll certainly be buying it.

Matthew E. Medley, Uppermill, Essex

Choosing a computer can be a bewildering and sometimes frustrating experience - that's why we presented the complete guide to selecting a computer that's right for you in last week's issue.

In that guide we recommended the Atari ST as the best all-round choice. But because of your circumstances the Amiga would probably be a better bet - it's just within your budget.

The Amiga includes an excellent version of Basic and you can buy other programming packages - normally priced around the £200 region.

The current situation for games on the Amiga is very encouraging - you won't get better graphics anywhere. Software is expensive though, the average price being £25.

Commodore is due to bring out a £50 BBC emulator for

512K 300,000, have access to an Amstrad 512 and recently purchased - Special Offer: It's a Bargain - a Spectrum 128.

I am not a great computer games player, although I find some of the games/ simulations quite addictive. This seems to be a pity that almost all the magazine articles and software available for the Spectrum are aimed at aimed at games players rather than those with more serious thoughts in mind. The same is probably also true of the majority of software available for the more popular PCs.

As computing in all its aspects is my main hobby and it is also important in my

work, it is very critical for me to be aware of the current trends in the marketplace. An in-depth study of everything available is obviously not possible, but an indication and/or opinion from New Computer Express will give me a lead as areas that would require further investigation.

I do get very annoyed with the esoteric jargon that is used in much computer literature, in particular CP/M and MS-DOS. My background is technical electronics and I find KISS (Keep It Simple, Stupid) an invaluable way of working.

A prime example of this my complaint was that after spending a number of hours

reading through a massive tome that claimed to be 'The Complete Reference Manual', I appeared to be on the verge of discovering the information that I had been searching for only to come across the sentence 'that of course is beyond the scope of this manual'. Need I say more. It was good to see an attack being made on this front with The Learning Curve in Express.

I hope that this magazine can continue and improve on its original form. At the moment I like it and shall continue to buy it.

R. Dinnall, Guildford, Surrey
KISS also stands for Keep It Short, Stupid! ■

MSXTRAORDINARY I

In *MSXtra* in New Computer Express it was said that MSX 2 machines are available in this country, but I know of a source - Video Games in the Midlands - that is still selling the old MSX 1. The particular model they sell is the Pioneer P-X7 which has a built in C64/10K capability.

This company bought the entire stock of these machines when RSI (Ricoh) a few years back. I am not sure if they bought approximately 30,000 of them and have been selling them in this country for the last two years. They are particularly good for these video editing machines because of the GENLOCK. I would estimate that there are between 10 and 15,000 machines being used in this country by video

enthusiasts.

There has been a lot of fuss about desk video machines on the Amiga in recent months. However, what is not usually mentioned is the quality of most GENLOCK on the Amiga. They are usually designed for the USA and therefore may only really go on the NSC standard. For a decent GENLOCK on the Amiga it costs about £500. The GENLOCK on the P-X7 is of good quality and is 'far better value for money than the equivalent Amiga system.'

You may wonder why I have mentioned this and I don't consider the above mentioned company. The reason is that I haven't read good MSX column in ages. I've got more useful info out of this column than most other magazines (including *MSXtra*).

MSX, you probably have to make a racket when so few of the commercial companies have been listening for so long.

We'll doubtless have yet another MSX letter appearing immediately after this one.

Congratulations on a very interesting magazine. I have never heard of New Computer Express, until I read about it in ACE, so I am not sure how many editions you have published. How much is your yearly subscription?

I am pleased to see New Computer Express supporting the MSX, and realising that it is a computer with a lot of potential.

I run an MSX magazine

called *MSX Gazette* and would like to know of any addresses which could be of use to me. If you would be able to let your readers know of *MSX Gazette*, I would be most grateful. Here is a little information on my magazine: We're there isn't, that's enough plugging - Ed.

MSX Gazette has also

MSXTRAORDINARY II

membership for MSX owners only. At present only MSX 1 basic programs are accepted, although we are planning to extend to the MSX2, and to the MSX2+ if measured.

Thanks to a member in Malta, I should soon have speech incorporated into my program. The tape club is called MSX Operating Games (Mag for short). We are looking for programmers to write some good software for us.

Thank you for supporting the MSX. Keep up the good work.

Robert Wilson, Hastings

1. Express was born on December 22, 1988, after its preview issue had been judged with ACE.

2. Sales are so ridiculous

that we're already full of blank

cheques on the off chance that may be a collector's item. But what is definitely not easy to obtain is that an Express issue at just £14.95 annually represents an extraordinary bargain. How can I use the card at the back of this issue?

3. I don't think we'll get quite so far as to say that the MSX has 'a lot of potential' - if only because of the lack of support from most UK software houses. It's just a pity that it has a lot of lettermongering supporters.

4. *MSX Gazette* sounds like just the sort of publication for us, so do send a copy. To see you writing in *MSX Gazette* area at 27 Redditch Road, Hastings, East Sussex TN3 8WK.

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A legend in his own

In the first of a major Express series, one-time Amstrad man William Poole charts the early days of the

The Alan Sugar Story

Business. Not exactly the most prepossessing of objects, and not exactly the most obvious basis for the greatest commercial phenomenon in the UK computing world. But business it was that started the young Alan Michael Sugar off in his quest to make incomprehensibly huge piles of cash as quickly as possible. And never underestimate a man who can turn the outlet of vegetables into money in his early teens.

Alan comes from a very typical East End background, born (under fairly strict) in 1947 in Hackney. Both parents worked in the rag trade, but from an early age young Alan caught on to the opportunities that even second-hand trade in just about anything when a market can be found. The tales of his early business exploits are legion and legendary in the classic 'East End boy made good' style of anecdote.

Alan's first trading exploit was in boot booting for the local greengrocer, opening up at a hideously dark hour of the early morning to do so. Then there was the photographic shop and the cataloguing of bulk film. Meantime he obtained a number of O-levels, and although stories differ on this point, I believe he also has three science A-levels.

But whatever the actual detail, it should be clearly understood that despite his enlightened street trader approach to business and his desire for intellectuals and 'boffins', Alan Sugar's no-nonsense streak – one reason why he managed to maintain the whip hand over nearly all his suppliers and staff. Never underestimate his parental agility.

Had it been as instilled by the prospect of certificates and academic achievement as he may say, he would be the professor of his chosen subject, by now – and about £500,000,000 poorer.

Money soon had to come down. Since his family background was by no means deprived, the Legend of Alan reveals no particular motivating force for his desire to get his shovel into huge reservoirs of money other than a larger than average desire for the better things in life. And rather more of them than the next bloke, please.

Aerial assault

Alan moved along into another good Jewish tradition in the East End, and worked with an electrical wholesaler. This led to the famous phase of selling car radio零件 from the back of a van, and many small electrical workshops round East London can remember the days of having to give that energetic young lad a shove to restart his van (why pay good money for a new battery when you can get someone to shove it for free?). From there, it was a short step to whether dealing in that notorious street of high tech uck tackle, Tottenham Court Road.

By keeping overheads low and applying his brilliant salesmanship he could form Alan Michael Sugar Trading by the age of 21. And using his astute observation of the marketplace and where opportunities arose, Alan had launched into several niches in the radio trade.

After the legend of the serials came the legend of the plastic record player covers. A £5,000 investment in tooling produced a player top for around

500 a month, and this sold for up to £15. This confirmed in the young Sugar's mind that the way to make serious money was to make huge profits, and to avoid any use of his rapidly growing capital that did not return around £10,000 per cent return.

This was an important ground rule fixed in the corporate philosophy. If you can't earn at least 30

per cent from a product, get out, and find somewhere that you can. And the other cornerstone in his philosophy: the world is full of mugs willing to work for peanuts, so let them.

Today Mr Sugar also kids his audience that attention to detail was one of the factors in Amstrad's success. Frankly (a favourite expression) that is a load of crap (another favourite expression), attention to detail only comes with the compulsions after getting a severe drubbing in the audio market because of a total lack of attention to detail.

The Mug's Eyeful Tower

Anyons who ever owned one of the earliest Amstrad audio products will recall that the next 99% along the road for Alan was the conception of the Mug's Kynd.

The Mug's Eyeful is where Alan's brilliance really shows the form. Take an expensive audio product, reproduce its facets, shave in something salvaged from a tatty radio chassis, and the lousy driver and aux male will cope. Hacking. It's just like the back-to-film sets where the host of the Game With The Wiz marathon is in fact a plywood mockery, stepped up by a load of lost by two.

The expansion looked a million dollars, but actually can very little. Outlets at places like Comet and Ratsheds were sold the products by Sugar's expert salesmanship, and the trip towards flotation as a public company was well under way.

Basically he looked at the Japanese route to success and did a very effective imitation. He himself might correctly be described as Britain's one-man economic miracle.

But all the time the kosher piano was playing frenetically away in the background, Alan continued to take short cuts with etiquette and the finer points of English management technique. His abrasive and direct manner led to problems with the old school, although all these with whom he does business have nothing but praise for his integrity and reliability.

Sugars general view of business progress is based on need-to-know. He managed to surround himself with a relatively unorganized but highly loyal staff who exhibited the key ability to learn as they were along (with a couple of exceptions). As new markets appeared and new products were devised, Amstrad boys picked it all up as they went along; but computers were a different story as we shall see.

However, the closing of the expensive look cook a step back when blatant copies of one expensive Japanese look-alike design led to an order to destroy a ton or two of the Amstrad look-alikes. This lesson was well learned and Alan then took a closer interest in copyright laws and made very certain that when the issue into IBM last came along, he was properly prepared. Below that, though, he had a more elementary battle on his hands: how to launch Amstrad as a computer manufacturer, just when the bubble was beginning to burst for Sinclair, Commodore, Acorn and Atari. •

This charming man

Alan Sugar is impatience personified. He usually doesn't bother to say 'Good Morning' on his home-made programme through the building to his penthouse. The debate as to whether this is actual belligerence or an eccentric obsession with the myriad pressing matters that surround a huge business revolving around one man's judgment continues.

It's safe to say that Sugar feels that manifestations of common courtesy when at this fine wood Caris series concern that he's getting soft in his dotage. In his personal life very few friends from his public life, he is a model family man, with a stable marriage that goes back to the days before anyone could possibly accuse Alan of marrying the old man for his money. This tends to support the view that Sugar's abrupt behaviour is a carefully studied and cultured approach to intimidation and inspire.

Insists he certainly does. His care of long-term staff alike continues to treat them with a reverence usually reserved for a religious master. In a way, this is a serious parallel, and the object of worship at Amstrad is profit. The burning question is whether or not the operation is so utterly possessed with profit that if the Amstrad mob would dash from armed robbery if they were 100 per cent certain they could get away with it.

Uncertainty on this score is what probably annoys many of the general city observers, whose own particular brand of uninsured robbery has a social acceptance amongst their peers.

The five quid a second approach to making money

Let's get one thing straight: Alan Sugar deals with computers much as he does any other commodity, as a means to an end, and the end is profit. Huge, grotesque, unimaginable and enormous amounts of it. Amstrad regularly achieves the impossible in terms of the net margins it maintains on its trading, doing at least twice as much as conventional wisdom would believe possible.

The profits accrue are too huge to be meaningful. In its last reported figures for the 12 months to June, Amstrad made £150,400,000. That's the equivalent of £45,452.05 each and every day of the year. Or to put that another way, Alan and the boys make £18,310.58 per hour, even when they're not working. And further, that means £260.18 per minute or even £5.09 per second tips into the Amstrad coffers.

So by 9.00 am on 14th April 1989 when most normal folk will only just be starting the year after the holidays, Amstrad will already have not only earned the pretty sum of £1,483,150.65...

launchtime



Men maketh micros

Some men are born to have difficulties with selling micros, some achieve difficulties and some have those difficulties thrust upon them.

The UK micro computer industry has been a curious contrast of personalities. All have had great ideas but then ill have had even greater problems. With the exception of a certain Mr S, all have floundered with financial

depth. Some have even rechristened.

Firstly there was the urbane, reportedly inoffensively arrogant, self-styled guru and visionary Sir Clive Sinclair. He may not quite have been only the boffin of popular imagination, but he needed a Sugar in shining armour to keep him afloat. Then up popped the terrible twins of Hauser and Cundy. They can thank the patronage of the BBC for rocketing Acorn from obscurity into a wretched monopoly of the educational sector, thereby putting a whole generation of UK computer users behind the competition

around the world while the IBM PC became the standard.

At the business end, there was the down to earth Bramble accountant who nearly made it huge, but minded on being just different enough to sink his Apricot. Roger Fisher. He, at any rate, is bouncing back those days.

All have been off-stage bit-part players in the Alan Sugar Story. He/they succeeded without them, of course, but their considerable bloopers made it that much easier for the Sugar takeover to occur.

NEXT WEEK: The IBM era comes to an abrupt halt as the 32-bit microprocessor takes over. It's all about the 386, from 386-based PCs to 386-based workstations. And the 386-based PC. What's it all about? And what's it all about?

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Carrying all before you

Peter Worlock presents a moving guide to the world of portables

Computing on the move has always received a disproportionate amount of coverage when measured against public interest, largely because it is computer journalists who are most in love with the idea.

But portable computers have come into their own in the last year or so, with industry giants like Apple, IBM, Compaq, Toshiba and Sharp offering products from low-end便携式 machines, all the way up to desktop systems that you can carry around with you.

These raise the question, though, of whether the ordinary user deserves the manufacturer enthusiasm. In a general, abstract sort of way, yes! all these are all-powerful, fully-featured computers the size of a Walkman stereo. But today's machines are a long way from that dream.

The question is: following for compensation – what can a portable do for you? Could it change your life? Or while save costs of computing power and flexibility whilst being you? Or are portables just another way of separating you from your money?

Points to ponder

The difficult thing about choosing a portable is trying to clearly establish what you need, and that will depend not only on what you intend to do with the machine, but how you intend to do it.

For example, if you want to literally compute on the move – the rather clichéd scenario of the insurance engineer for sales repair on tracts or plane – your choice will be very different from one when what it wants is a machine that can simply move around from house to head office, to branch office

Portable portraits

Michael Maykit: The Salesman

A go-ahead, thinking salesman, Mike will definitely make it in the corporate ratrace, thanks to his portable PC-compatible.

Because he drives everywhere he doesn't need a battery-powered laptop, but his computer goes with him on visits to his clients, and he can treat a hotel room as if it were his office.

It allows him to keep track of all his sales leads while he's out on the road. Through its built-in modem he can hook up to the company's main frame back at head office and get instant and upto-date information on product availability and delivery schedules – which impresses his clients enormously.

And he can stay on top of the paperwork, the computer's integrated software lets him run information from database, spreadsheet and graphics program with word processed documents. When he returns

to the office, he can simply print out his monthly reports while his rivals for promotion are still writing theirs. Bad news for them, great news for Mike.

Doug Drybones: The Archaeologist

On his last dig, Doug made use of a small battery-powered laptop which gave him computer power even in the middle of nowhere. Doug didn't need to preprint the information needed; he was able to record details of site surveys, and to record the location, description and measurements of every ancient artifact found during the excavation.

His needs meant he could dispense with expensive (and heavy!) PC-compatibility – important when time is on a limited budget.

All of the data was stored on EPROM cartridges, which don't suffer the high power consumption of hard disk drives, and have no moving parts to be clogged up by the

dirt that is so much a part of the archaeologist's professional life.

Later he transferred the data to his desktop PC, where began the arduous task of analysing the myriad bits of information and integrating the results ready for publication. So successful was the process that his academic paper spurred the profitable documentary TV series, and the critically acclaimed movie starring Harrison Ford.

Sue Yerassov: The Lawyer

Legal eagle Sue found that the price of success was little hours in the office. Unfortunately, leaving work when most people were leaving the pub meant she ran the risk of bumping into one of her many clients – like habitual dragger and passenger Stanley Nyle.

Sue solved the problem by buying a laptop PC. Now she can leave her office on time and carry on working at home. And during that last hour or the 5.15 from Waterloo, she's writing what promises to be a best-selling crime thriller starring all of her insatiable professional acquaintances. After all, a good-looking character like Stanley should be good for something.

to home again.

To help you decide, here are five questions that should point you in the right direction.

I Do I want to compute on the move?

If the answer is yes then you must have a battery-powered system, and that brings limitations. Although you can run large screens, floppy disks, and even hard disks from batteries, you won't get very much use between recharges.

If the answer is no, you can widen your choice to include machines that require more power but aren't quite so convenient to move around. The Osborne 1 was the pioneer in this respect, and even the Apple Macintosh qualifies, as do most Compaq machines. The key feature is that the monitor is built in to the main unit.

2 Do I want a real computer?

A 'real computer' in this sense means a machine that can run software like a word processor, a database, a graphics program. For that you obviously need a full-size keyboard and reasonable display screen.

If all you want is to enter data without processing it, or to have access to data entered earlier, back at the office, for example, you can save a lot of money because you don't need large screens and keyboards. You could use something like a Psion Organiser.

3 Do I want to run my favourite software?

If yes then, aren't you, you choices start to thin right down. You have to realise that in portable computing, there's PC-compatibility and no other standards at all. That means if you're a Macintosh, Amiga, Atari ST or BBC owner, you simply can't run your favourite software on a portable.

If you have a CPM machine you're just slightly better off because these are CPM portables, like the Epson PCX. However, these have largely been discontinued. Although you can still find them secondhand, you won't be able to run all the software you want, but at least you'll have WordStar and one or two other CPM favourites.

If you have a PC then you've got the widest choice, but there are still limitations. For example, if you're planning on running your standard corporate spreadsheet, you might find you'll run out of memory before it runs on a portable. Of course, your company's software might be close to unusable on an LCD screen in poor light.

4 Do I really want a full-powered desktop I can take with me?

It's not out of the question, but you'd better be prepared to pay for it. As a rule of thumb, portables will cost you roughly twice as much as an equivalent desktop PC. That's largely because components for portables - low-power processors and memory chips, disk drive controllers, etc. are much more expensive. And the precision engineering needed to cramp everything into a tiny space doesn't come cheap either.

5 Do I just want to take work home from the office?

Think carefully about this one: if the answer is yes, you can save a lot of money and inconvenience. Because now you can buy just about any computer you want as long as it will send data from your office PCs. Atari STs, Amiga, Archimedes, Apple BBC Micros, and Macintoshes all qualify with various bits of add-on hardware and appropriate software.

Note that you don't have to be able to run PC software; all that's necessary is that your home computer can read and write data in a form the PC can understand. Now the only thing you have to take around is a floppy disk.

Brave New World

Choosing a portable can be more difficult than choosing a desktop computer, because portability raises some unusual issues and provides some odd solutions. You will only need to understand computers, you need a clear understanding of what your work entails, and then a portable might help.

But once you've made the right choice, portables can bring enormous benefits.

If you're a commuter, the time you spend on trains, tubes and buses can be wasted time; a battery-powered laptop could give you an extra two or

three productive hours a day.

If you're a roving worker, constantly moving between offices, visiting clients, staying in hotels, attending conferences, a portable can not only increase productivity but also allow you to take your office with you. As the old song has it: 'wherever I hang my AT, that's my home.'

If you're often required to work late at the office

to clear your workload, a portable could get you home earlier where you can carry on working. Of course, this doesn't equate to more free time, but at least you might see your kids before bedtime.

If most of your work is done in places away from national grid power supplies you really don't have much option but to go BATTERY-powered.

Portables are a workaholic's dream come true!

I Spy Portables

The Hand-Held Machine



• Psion Organiser - the most portable of them all



• The Cambridge Z80 - closest to the ideal?

cartridges for storage (and an answer if you happen to be one) the standard one-cartridge package can rack the price up close to £500.

The PC on your Lap

More surprisingly, the easiest solution laptops are PC-compatible, highly portable, except that prices tend to be very high - until A. Sager launched one and the cost came tumbling down.

Around £400 will buy the entry-level Amstrad PPC with 512K of RAM, 720K of disk space, a full-size LCD screen, just large enough to show a nice 80x24 address. There's a full alphanumeric keyboard, but you need separate triggers to use it, and you wouldn't want to use it for more than a quick calculation, or to enter the benefits of house.

Software includes a wordprocessor, ledger, bank account manager, and a hardware/advantage pack for connecting the Organiser to any computer with an RS232C interface. There's a black leather shoulder holster for carrying it around. If you're the thick-skinned type who can ignore hints of destructive lightning, this is the best buy.

Prices start at around £300 for a model with 8K of RAM, but essential 'extras' like mouse, memory and the census pack quickly take it over £500. But computer doesn't come any more portable than that.

There's an enormous range of alternatives, offering better displays and more compact keyboards, and if you sleep around you can buy any of the following laptop PC classes at under £1,000: Toshiba T1000, Sharp PC-980, Zenith Superport, Olivetti M15, Bondwell DS, and Walters PC Portable.



• The Amstrad PPC - great price, shame about the display

The Transportables

Typified by the Compaq Portables and the top-end Toshiba, these machines are essentially desktop PCs, but with LCD or gas plasma displays built in to the main unit, and in a fold-down case that makes for easy transportation.

You can't use them on the move because they're work with batteries, but are perfect if you need a PC that can be readily moved from session to session.

VP Planner

plus

version 2

"I can't really see why anyone would buy Lotus 1-2-3 instead of the cheaper, compatible, more powerful and versatile VP-Planner Plus"

Amstrad Professional Computing, September 1988

Nor can we. Can you?

Comparison of VP-Planner Plus version 2, 1-2-3® rev 2.01 and Quattro®

Features	VP-Planner+	1-2-3	Quattro
Worksheet size	2500x250	1000x100	400x400
Number of disks/ installations required	2 (optional)	4 (optional)	4 (optional)
3 line under/ pop-up menu control systems	YES	NO	NO
Undocumented commands, feature macros	YES	NO	NO
Toolbars and menus	YES	NO	NO
Background process re-calculations	YES	NO	NO
Fast recalculation	FASTEST	see below	NO
Add-in toolkit for add-in programs	YES	NO	NO
Text editor	YES	NO	NO
Report generator	YES	NO	NO
Line and box drawing	YES	NO	NO
Data input commands	YES	NO	NO
Multi-dimensional database files	YES	NO	NO
SubASIC file referenced by field & named	YES	NO	NO
Subroutines print	YES	NO	NO
Background print	YES	NO	NO
Autosave	YES	NO	YES
Range columns width commands	YES	NO	NO
8 with constrained (bold)	YES	NO	NO
Up to 16 screens on a worksheet	YES	NO	NO
Put graphics from windows	YES	NO	NO
Number of user directly executable macros	any	2	any
Macro trace mode	YES	+ 100 lines	YES
Edit recorded macros	YES	+ 100 lines	YES
Macro de-bug/trace mode	YES	YES	YES
Macro editor	25	8	8
Logical functions	2	7	6
Financial functions	12	11	11
Statistical functions	38	30	12
Engineering functions	10	11	11
String functions	17	17	21
Other functions	16	11	11
Total functions	107	96	100
EGA, CGA, Hercules supported	YES	YES	YES
VGA, AT&T video support	YES	NO	NO
Standard graphics	6.02	4.00	"
Addition small	0.38	1.00	2.20
Division large	0.00	8.00	"
Division small	0.38	3.00	2.42
Expon large	0.32	5.00	"
Expon small	0.38	5.00	3.66
Multipl large	0.62	5.00	"
Multipl small	0.38	2.00	2.35

All times in milliseconds of a second. Large and small revisions of four main driven workbooks were used, large models contain more than 72 rows and 72 columns, small models contain 35 rows and 35 columns. Tests were conducted on an AT clone w/ 1.5MBs and an on-processor. *Quattro could not load large models with 5MB free after DOS. Lotus 1-2-3 releases the column constraint to the nearest second only. VP-Planner Plus runs on IBM PCs and compatibles with 384K or more RAM.

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"More sense than money" - PC User March, 1988

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Just Raring To Go...

ANDY STOMPER looks at six new contenders for the Christmas partyline



* You're the little guy... looks like you're up against BIG trouble

TIGER ROAD US GOLD

Although we've brought you a review of the DS4 version on page 23 this week, we liked the graphics so much on the ST version we thought it worth including a screenshot. As you probably noticed it in the arcades, let's just say you're up against a bunch of master Ninjas in level after level of martial arts mayhem.



* The art of subway riding on the Amiga

GRAFFITI MAN SOFT GOLD

Get a hold of your spray cans, crack the Rap and go painting in a comic-style quest to become a member of a famous graffiti gang. Problem is, though, there's a whole bunch of people out to prevent you painting up the eight locations as fast as at the end of each level you have to copy the artwork you're presented with. The complete

judges your results and if you're a bedding subway surfer it's onto the next. Why was Art 'ill school never like that?

CIRCUS CIRCUS MARTECH

Martech's Big Top sim combines six circus events to present you with the chance of becoming Master of the ring and its acts. So, roll up, roll up, for taming wild lions, throwing knives, high-diving, tightrope walking, the high



* Fly through the air with greatest of ease on your Spectrum

trapeze and tent, but by no means least, whizzing through the air as a human cannonball. As TyneSoft's Circus Games and Goli's Circus Attractions are also due out shortly, you won't have any chance to clown around any longer.

WANDERER ELITE

This French import for the ST first saw the light on the QL nearly two years ago, where it proved, too late of course, that the Quantum Leap did have games potential. Wanderer is worthy of note for its overlapping blue and red wireframe graphics, which combine to produce optical 3D when viewed with the accompanying spectacles. The gameplay involves roaming the over the galaxy firing at and fleeing from a range of spaceships and to prevent you collecting playing cards - yes playing cards - to planets in the middle of a poker game.



* No you're not drunk - you just need glasses

This week's sneak-a-peek...

Still waiting from the developing team is the first screen shot of Thunderblade on the Amiga - we've seen a near-complete version and it looks great, shooting over the ST's great graphics firmly down the Earth. It's further proof that the gap between Amiga and arcades is closing all the time and will be there with the full review just as soon as we're allowed to print it. Catch our review of ST Afterburner elsewhere to check out its closest rival.

Road wars go 16-bit

U.S. Gold sure it fast down to overtake Outrun... Titas, titas, titas, titas, titas



* Extra weapon time - thank heavens...

ROADBLASTERS US GOLD

The multi-player roadracer between Elite and U.S. Gold over the similarities between Outrunner and Roadblasters accelerated right into the court room, and as far as we know they're still there. Two great games for the lawyers among you to check out. But here's the ST ver-



* Motorway madness takes on a whole new meaning

side of the Atari arcade game that caused the rumpus and it looks to have been worth the wait. Fire and go, and from Titas also burn up the same bit of road, so there's a number of choices open to pedal to the metal merchants. You don't need to overtake as take out your opponents...



CRAZY CARS 2 TITUS

We had a laugh last week when a rival mag published screenshots from CC2 with captioning telling them as Outrun Europa exclusives - that's the same mag that boasts sales of 60000 when it's less than half that so there's no wonder. Crazy Cars 2 looks like a great follow-up to its predecessor, which boasted as far as most reviewers were concerned, you're listing the series, with the same kind of racing game but the animated graphics are in a different league altogether. This time you also get to crash quite frequently as well instead of merely bouncing around and carrying on.

* No it's not Outrun Europa on the ST!



Welcome to the New Computer Express games section, the liveliest, most up-to-the-minute reviews for miles. You'll notice that our reviews are laid out differently from run-of-the-mill computer mags. We:

- use a simple, no-holds-barred, no-fuss star rating system, where only the very best games get the coveted five-star rating.
- break up reviews into easily-digested sections relating to scenario, gameplay, graphics etc. – no more hunting to find out what you want to know.
- take version differences seriously. You'll always know what machine the game's being reviewed on, but we'll give you information about other versions too.
- give games of particular significance their own box, together with a blurb to say what's different about them.



Flying Shark
AeroSoft

Firesbird's latest on the ST is another release in the long-line of vertically scrolling shoot'em-ups – so why bother buying this particular incarnation?

• **GRAPHICS**

You find using a joystick would be boring by today's standards, but believe us, it's only a waste.

As you find your biplane glide through some very attractive – but extremely hostile – territory, you'll meet all manner of enemy forces just waiting to give you a hard time.

Tanks, biplanes and anti-aircraft guns are just the beginning of your troubles, because as later levels you'll encounter massive aircraft carriers and secret supply depots – at which time will be destroyed with a staggering roar, otherwise you'll find another like goose.

Fortunately, if things start to get too tough, help can be found in the form of smart bombs, extra firepower and extra lives – all of them for the taking.

• **GRAPHICS AND SOUND**

The backdrops are stunning, with some very colourful and well-defined objects – and are complemented by equally distinguished sprites.

Audio comprises of soundtrack and spot effects which are not exceptional but do produce a pleasing background to the on-screen action.

• **OTHER VERSIONS**

The ST and Amiga versions were released late last year, and are



• **Rating:** These Fokkers – it's them or you.

now available on a compilation tape from Ocean called *Tello Co-Op Hits* – along with *Arkanoid* I and II, *Rivendell*, *Bubble Bobble*, *Raster*, *Star Fight* and *Legend Of Rage* – all for around £13.

• **EXPRESS VERDICT**

Flying Shark produces a praiseworthy set-piece of probably proceedings. You're fired – Ed! Visuals are impressive, audio is great and gameplay is fun – but you're left with a feeling of deju vu as you shoot 'yer way through yet another vertically shoot'em-up on the ST.



Rik Haynes

GALACTIC CONQUEROR

Amiga, ST, PC, Spectrum, Commodore 64, MSX



• Shooting your way through sprites shifting at lightning speeds

This 3D arcade-action blaster from French company Titus is one of a only a handful of shoot-em-ups to appear first on the Amiga. In combining fast action with strategy, *Conqueror* also attempts to deliver lasting gameplay. Does it succeed or is it just another spacey shoot'out?

• **GAMEPLAY**

Your job is to protect the planet Galien with your star-fighter, Thunder Cloud II, as a large rebel force spread rapidly across the galaxy. From a star-map you select your destination – hey presto – there you are in the thick of things up against invades, probe-rocks, missiles, meteorites and, of course, enemy ships of all shapes and sizes. On each planet you'll encounter three types of combat – ground, aerial and space fights all requiring heavy use of the fire button.

Pad a planet of rebels and it's back to the map to decide where to land to prevent their strategic spread – here the game adopts a TACTICAL war game scenario but the main is pure, unadulterated blasting. Thankfully, you enjoy unlimited lives, since the game only ends when Galien is invaded – so it's great to have nothing to worry about but the body count.

• **GRAPHICS AND SOUND**

Galactic Conqueror is visually very impressive, with 3D opponents moving both smoothly and swiftly towards you with ease. This scaling is the major highlight of the game, and proves the programmers know how to shift a sprite or two. Audio's a less convincing – the digitised speech accompanying exploding spacecraft would be better if it were louder and more varied.

• **OTHER VERSIONS**

Available now for Amiga, ST and PC, *Galactic Conqueror*'s also due out on CPC, Spectrum, C64 and MSX. We haven't had chance to see the ST or PC versions yet so it's a bit iffy as to whether they'll duplicate the Amiga's very rating.

• **EXPRESS VERDICT**

A great cutting as far as intergalactic shoot-em-ups are concerned. We particularly like the lack of interruption in gameplay – you can boot up and shoot on forever. Whether you'll find time to work your way through all 416 planets in one sitting is another question entirely.



Andy Storer

TIGER ROAD

Amiga, ST, CPC, MSX, Commodore 64

Capcom

GALDREGON'S DOMAIN

PANDORA

Amiga • £19.95/£24.95

Due out soon on ST

Scheduled for Spec, CPC, 6502

Galdregon's is an interactive role-play game in the vein of Dungeon Master - it features similar aims, methods, locations and objects - but differs in so far as in this one you're strictly on your own - there's no bunch of varyingly gifted and skilled colleagues to help you out of a tight corner.

So, as there are plenty of tight corners, you might expect it to be a lot more difficult. And as it took four hours to complete, to produce you might be right.

• GAMEPLAY

You've been chosen to battle against the wizard Assaxel - a resuscitated occultist of the evil variety who's searching the Lands of Mysage for the five gems of Zodar. Your aim is to locate the gems first and thereby usurp your self with extra powers.

Simple enough, except they're somewhere among 2000 locations, and when you consider a castle or a dungeon is just one of these and it alone may feature up to 250 locations then you're really got your work cut out.

When all five are brought together - well you're well on the way to becoming one helluva god. As you're already deemed to be uncouth in combat skills by your contemporaries, you might think taking the gems from the five powerful creatures who guard them will be a piece of cake. Think again. You're going to need all your strength and cunning to defeat them.

It's best to visit inns and settlements and get some inside knowledge of who you're actually up against. There are several hundred characters with which to interact and only a few of them are friendly. All are semi-intelligent beings capable of taking the tables on you thank you, so scratch that.

Besides equipping yourself with what there's also a lot of handy weapons and magical objects to find - two-handed swords, daggers, wands and chains among them. It's best to find yourself

some clothing first though - and the kind of stuff you'll look best in is the functional sort, armour, shields and chain-mail.

Commands are effected by mouse control - various sub-menu depict choices and options available to you. Actions such as closing, opening, locking and unlocking the many entrances and exits you come across are all activated by icons. There's a full range of the usual commands you find in a text-based adventure including an invento-

tory screen to show what weapons and objects you're carrying. Speech with other characters, the casting of spells and choice and use of weapon is also conducted in the same way. Movement is achieved by either mouse or joystick.

• GRAPHICS AND SOUND

Galdregon's main-screen graphics consist of fast-loading, well-detailed locations with large, overlaid character sprites. A great deal of attention has been paid to evoking atmosphere in every situation - from castles and labyrinths to forests, plains, caves, temples and rivers.

Each major location has a completely original design motif - there's none of the grey-wolf monotony of Dungeon Master - and what's more there are 32 colours on screen at any one time, so you're looking at a four-dimensional world. You're left wondering how so much detail and scale can have been incorporated into one package.

Sound is comprehensive too. There's 90K of studio-recorded digitised FM covering location ambience, combat action and movement along with a further 90K of music. Digitised speech was also to be included but has now been left over to be included in - yep - Galdregon's Domain 2.

• OTHER VERSIONS

Galdregon's due out next on the ST, where graphics should be of the same high quality but sound effects a little less clear due to the Amiga's better sound chip. It's also due out on Spectrum, Amstrad and C64.

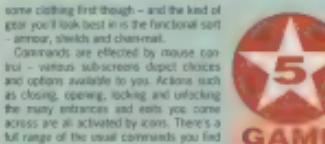
• EXPRESS VERDICT

Every now and again you come across a game you just know is going to be a banger, and in this case you have Dungeon Master's sibling to go on. Galdregon's is, actually, the same territory but possesses better graphics, sound and a gameplay that is every bit as compelling and more.

With this range of locations and atmospheres at hand you could be in Galdregon's Domain for a long, long time and if you're falling short for money to the nth degree.



Andy Storer



* There are 250 rooms in this castle location - just one of many



* A couple of knights look as though they could make your next step your last



* This damsels's certainly in distress - she must be freezing

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• Paints the blue one and you're fighting the reds [hang on, is this getting political?]

choosing your own route across the territory as you move towards your objective - be it freeing hostages or annihilating enemy bases.

In addition, there is a short section before each mission where you can choose your supply drop points as you control an aircraft flying over the combat zone. Then you guide your paratroopers as you glide to the earth, hopefully steering clear of enemy hotspots. Once on the ground you can use a variety of weapons, run, crouch, and even crawl as you take on the enemy.

Admiral Ranger first appeared on the O64 a year ago, and has taken on now to make it onto any other machines. The graphics on CGA machines are quite good considering the limitations of just four colours - animation and detail being good.

Sound, though - well, let's just say they've made an effort. The effects, including the sound of the aircraft's engines and, later, gunfire, are quite good considering - but to incorporate 'hans' as well was optimistic to say the least, bearing in mind the PC's sound limitations.

The PC version of the game is the weakest, while the ST version should be worth looking forward to.

★★★

• Rod Lawton



Last week we were first off the runway with our review of the Spectrum version of this fast arcade conversion and now we've taken hold of its almost complete ST counterpart.

With coding by The Argonauts of Starglider 2 fame you'd expect Afterburner to clear the skies of most competition, wouldn't you? Of course you would.

• COMMODORE

Fox-14 Thunder Cat fighter zooms up on auto from its camera base to commence a seemingly endless aerial attack as you try to total everything that even attempts to enter your field of vision. While your 20 mm cannon continually fires unlimited salvoes, you're hitting line for missiles to take out any enemy craft that aren't immediately in front of you. A window beneath the main display registers your locked-on, and the target is tracked as the

RAMBO III

OCEAN

£64 • £9.99s, £14.85d
Also on Spec, CPC
Out soon on ST, Amiga



• Level 3, and Rambo's just stepped into a whole heap of trouble

Ocean now gives you the chance to take the persona of that infamous comma-bashing Neanderthal, Rambo - helping that computer Rambo will be more successful than its film parent was earlier this year.

You mission consists of rescuing your long-time friend and colleague, Colonel Tradition, from the evil clutches of the Soviet Union. On your assignment you'll battle through three separate multi-level sections in a bid to single-handedly wipe out the Russian government in Afghanistan.

• GRAPHICS/PLAY

Section one places you in a Russian fort, searching for the old 'trusty' who is held captive somewhere within its walls. On your travels you'll encounter loads of Russians - presenting you with a simple choice (Rambo can't handle anything about a woman): kill or ignore these hateful creatures of subhumanoid substance. It's likely you've got such a large variety of weaponry to choose from - knife, explosive arrows, pistol and machine gun, arrows etc - that you might get bored otherwise. You'll also discover various objects lying around which can be picked up and used to help you further progress.

Once you've freed Tradition, you must escape from the fort by piloting a strategically placed 'bunker' - before making your getaway in a thoughtfully provided Russian helicopter.

In the last section, you'll have the chance to mow down your Russian opposition by using one of their

AAARGH!

The first two sections place you in a horridly-timed type environment, in fact it's not a million miles away from Pandora's Box in the Eagles Nest - using a side-on, slightly overhead view of the proceedings.

The final section is much more interesting with the action taking place in a modern Operational Wolfpack way.

• GRAPHICS AND SOUND

Average is the word that best encapsulates the audio-visuals of the game. While they are not that bad, they only perform their assigned tasks in a rudimentary and unimaginative way.

The only innovative visual touch is the way your enemy depiction rate is represented onscreen by a cancellation of Rambo's (sight)ing turning into a ghostly shell.

• OTHER VERSIONS

The Spectrum and Amstrad CPC versions should be out by the time you read this, with ST and Amiga versions to follow soon afterwards. Don't expect any big improvement in the graphics though.

• EXPRESS VERDICT

Even if you can ignore the pallid, pallid American - going no remembrance, average audio-visuals - and boring, but relatively fast-paced gameplay, you'll still think the monetarily useful title to be a reasonable purchase. Despite having done the best you could expect with a bad license, the Rambo 3 port doesn't deliver the goods.

• Rik Maynes

missile loads it way home. Every few levels you're rearmed and refuelled in mid-air or on landing strips, and then it's onto the next patch and off for more continual combat.

• GRAPHICS AND SOUND

By first standards, the graphics are of course better - but not by that much. We're not talking serious definition here, nor responsive response from the joystick or mouse - achieving a 360 rev seems almost arbitrary. The aerial opposition emerge as specks on the horizon and it is too easily disappear behind you in a blurred rash. The ground beneath you bears only a passing resemblance to landscape - the absence of detail being most apparent in the night sequences. Sound effects consist of a backing music track interspersed with digitised warning speech and the intermittent sounds of exploding aircraft.

• OTHER VERSIONS

The Spectrum and C64 versions are worth checking out, since they make full use of their machines' graphics capabilities. We can only wait to see what the Amiga version will look like - in the meantime there's CPC, PC and MSX versions also.

• EXPRESS VERDICT

We're disappointed by the technical quality of this conversion. When you compare it to a good conversion from earlier to ST - say Elite's Space Horner - it looks though Afterburner is only half complete. There's so much of the original's detail missing you might imagine this has been a reshuffle to hit the streets for longer. A great pity.

• Rik Maynes



• Shake, Rattle and Roll - or battle through the shaky scroll

Andy Storer

ECHELON

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Touted as a "true flight" (is a craft that doesn't exist?) Echelon promises a tough and long game task, with a mixture of action, strategy and exploration.

You're flying a C-104 Light Cruiser (code-named "Sensational" in the 21st century West), and it's your job to contain the pirates that are threatening shipping in the space-time dimensions of the newly-discovered tenth planet.

• GAMEPLAY

More than that, it's a flight of Starship 2. Here, as you have to combine exploration and puzzle solving with a fast action, good old arcade action. You patrol a non-Euclidean space that contains a variety of interesting objects and locations. Your ultimate task is at the end to learn the location of the pirate base once and for all, and then to return down on the planet surface to help you. A map is provided with the game, but only nine of the 38 areas have any chart, it's up to you to explore and make the connection.

While you're doing that, there's plenty else to be getting on with too. Fly your C-104 is a complex enough task with a daunting keyboard reference card to keep by your monitor. You can practice your flying with three different training courses located on the planet surface (check the map and see where the depots, depots and flying your ship) mode).

If you want to concentrate simply on the exploration aspect, you can switch off the fast guys altogether. Alternatively, you can choose to speed up the gameplay with a series of continuous combat with the pirates. Chances are, once you've got to grips with control of your Starhawk, you'll fancy trying it a bit.

DETAILED GAMEPLAY

• GRAPHICS AND SOUND

As Echelon loads it's cockpit surround first impressions are good. You have a clearly depicted display and gauges indicating data on velocity, position, altitude, shield level, fuel, RPMs, pitch, bank and heading. At the centre of screen you have a radar map of your current sector and its contents. The main screen area loads in a second later presenting you with a wide-angle view of your immediate surroundings. So far so good. You hit the accelerator and, hey presto, better get yourself a pillow. You could lose life while waiting for the screen updates on this one. What's more the main screen looks distinctly CGA colour-wise while your brain attempts to piece together the dots that are meant to signify objects and detail. Okay, so Echelon's been out in the States for well over a year now but even then it looks at least three years old.

• OTHER VERSIONS

Get on the E4 for several months – when, if you were lucky enough to live in the States, it came complete with a Loshitz la voice-activated firebutton – Echelon suffered from slow screen updates.



E4 – That's your view as you prepare for launching.

• EXPRESS VERDICT

Echelon scores on game content and scale, but suffers slightly when it comes to graphics and sound, or the price. Just as well, then, there's more to it than sheer arcade funniness.



Andy Storer



E4 – What have we got here? Evidence of the pirate mayhem?

4 SOCCER SIMULATORS

With the football season in full swing (Sports, what are you playing at? It certainly isn't football), software companies were bound to release plenty of football games.

CodeMasters has kicked off with 4 Soccer Simulators, the first game to be released on its new Falconsoft label – but is it worth the extra asking price?

• GAMEPLAY

4 Soccer comprises 4 separate games: 11-a-side soccer, indoor soccer, street soccer and soccer skills – all tied together by the basic theme of football. 11-a-side soccer is the full featured game, indoor soccer is played in an enclosed arena and street soccer is played in a street with cars, fences and out-of-bounds gardens. Soccer skills is a training section including ball control, goalkeeping, penalty taking, sprint training, press-ups, weight lifts, sit-ups and box lifts.

The soccer games are basically the same, the only difference being in major orbits of play, such as allowing/disallowing freekicks, goalposts or corners – which may sound substantial, but you don't notice because you're so frustrated by the awkward and slow player controls.

Each game is played on a severely reduced play area in the centre of the screen – using a slightly overhead view of the action. In play they offer nothing new to the already available soccer games.

Soccer skills consists of several joystick-waggling

events – which are so boring you should be awarded extra points for just staying awake – and is obviously designed to build up the number of games supplied.

• GRAPHICS AND SOUND

The CPC can produce some brilliant colour displays – it's a pity CodeMasters didn't use any of them when they wrote this game – the colour schemes used are dull and boring. Definition and animation of the players is the only adequate visual aspect.

Sound-effects are almost non-existent and are accompanied by a chronic and out of place soundtrack on the title page.

• OTHER VERSIONS

4 Soccer is not as dire on the Spectrum – only with even fewer colours.

• EXPRESS VERDICT

CodeMasters used to produce some very audio-visually appealing, slightly unpredictable, but very endearing games. Unfortunately 4 Soccer is another example of the demise of this formula – offering a haphazard selection of totally unplayable soccer games complemented by a boring and superfluous training section. Match Day II by Ocean is a far superior football game – and it's cheaper too!

The Darling brothers should speed less time promoting themselves, and start to concentrate on producing original and exciting games titles.



Rik Haynes



Even CodeMasters wouldn't sponsor this one!

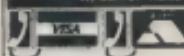
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What's a computer for?

The functions of the micro can be many and varied...

A fair question often posed by people who haven't bought a computer is: What can I do with it?

The things you can do with a computer fall into two categories: work and play, and many computers are equally good at both. (Although a lot of people like to think you can run business and pleasure with any of today's computers you can, and very easily too.)

But because some computers are better at some tasks than others, it helps to have an idea of possible use before you hand over the plastic.

The play's the thing

Fam: most computer owners spend most of their time playing games. Some otherwise well-told you that this is because computers are nothing but toys, but the truth is that it's because most of us like to play.

And if you believe all computer games are of the Space Invaders type, then you don't know the half of it. True, most games do involve racing on space battles, neatly avoiding aliens, and always always having a kill-or-be-killed scenario. They're designed to appeal to the child in all of us - there's fast, loud, colourful, exciting... and they can be massively addictive.

But there's a second group of games that require a much more thoughtful approach. This group was originally called 'adventures' - after the title of the first game of the type - and originally made for grown-ups instead of children. The player is usually invited to control a computer-puzzled character in undertaking a quest, or solving a series of puzzles. Such games have been called 'adventures' because they can be like reading a book in which you can also influence the outcome of the story.

More recently, the situation has changed so that players are now more closely identified with the leading character, assuming an electronic alter ego for the duration of the game. For this reason the genre is becoming widely known by the title of role-playing games, or RPGs.

A third category of computer games covers simulations. Here the computer attempts to model a real-world situation, and then puts you in charge. Some of the best are flight simulations, which allow you to control anything from a small private plane, to a helicopter, to a passenger-carrying jumbo jet. But

there are others: car racing, a submarine or a battleship, past the space shuttle, occupy the hot seat in an air-traffic control tower, drive a Formula 1 grand prix car run a small company or a large country, or manage a football team.

The best simulations are incredibly realistic, and most are informative and educational while being entertaining.

Finally, there are the computerised versions of 'real' games, for want of a better phrase. There's everything here from chess to football, from bridge to golf, even mountain climbing.

Of course there's a lot of rubbish among computer games, but as Theodore Sturgeon once said, 90

out of every 100 books are trash, without mistakes, neatly formatted, a thing of beauty.

Obviously you have to do a lot of sorting to get the most out of word processing. You'd be foolish to spend £300 or more simply to purchase one or two each between a year. But if you've bought a computer (or whatever reason), word processing is another option on your investment.

Data daze

atabases: thanks to a million cap sheets and spy thrillers, this is the one that most computer novices

What not to do

Although you can make a computer do almost anything, there are certain applications that simply aren't worth bothering with.

For example, there is the classic 'balancing the bank account' program. If you can't keep track of your money with the aid of your cheque book and a pocket calculator, a computer isn't going to help.

There's also the problem of fitting the computer into your everyday life. If you finance a computer, it will constantly complain more or less constantly through the day - if you're using it in a business environment, for example.

It's perfectly possible and sensible to have a computer as a book in your library.

If it doesn't make sense to try the

same thing at home, you'd be better off with a radio than inking through the paper overload, selling useless software/over oil rubber every time you need a phone number.

Remember, computers can do almost anything, but it's up to you to decide whether it's worth doing.

shank of when they picture themselves working. Just feed the electric brain with a couple of database of information, and back comes a list of appropriate names and addresses.

Unfortunately, in the ordinary way, you can't buy sets of useful information for your computer to process. What you can buy - and lots of them - are programs to sort the data into meaningful order, and then to give you that information as a form that's useful to you. So you have the laborious task of typing all that information into the machine in the first place.

So while it's possible to type in the relevant details of all your favourite restaurants, or your record collection, or your library of books, the job is labour involved is off-pulling, to say the least.

But if you do have a lot of information that needs to be managed properly - reference notes for your degree thesis, for example, or the membership list for the Snogging-on-the-Green London Hare's Club - the computer is a great helper.

By the numbers

There is one application for computers that would be close to impossible without them: spreadsheets. A spreadsheet is an electronic grid of thousands of boxes, and each box can contain a number, a label, or a mathematical formula. Furthermore, each box can be cross-referenced to other boxes.

All the hard work of calculating all these formulae is left to the computer, which performs the maths almost simultaneously.

But the clever part is that when you change one number, all the myriad effects of that change can be seen instantly. This makes spreadsheets very useful for businesses because it allows you to calculate the effects of small changes in your finances: what happens if you put rates up by 10 per cent? What happens if your rates are cut by 12 per



You can now do even more with a computer, and faster and cheaper into the bargain.

around a keyboard, it can be physically easier to get words on paper, and it can be much quicker. The computer can check your spelling, and other mistakes can be corrected quickly and easily with

cost? And so on.

The spreadsheet also allows such complex mathematical images to be created that the application is often called financial modelling. You can create a numerical model of anything from a corner shop business, to the national economy.

However, spreadsheet work for any mathematical purpose, not just money, is an engineer could calculate the effects of stress on a material, or a biologist could model the effects of pollution on animal populations, or a model aircraft maker could try various wing shapes and see the effect on lift, drag and other areas of flight performance.

Provided you're comfortable with mathematics, a spreadsheet can be put to use almost anywhere.

Sound and vision

Computers aren't just good for "wordy" but dull stuff like facts and figures, they can be put to work in the arts too.

Even if your artistic talents seem to have fizzled out at the level of nursery school finger painting, your computer can help you get a little further along the road.

Graphics programs allow you to treat your computer as a painter's canvas or sketchpad, or an architect's drawing board. Even with quite basic software, you can always draw a straight line, or a perfect circle. And with more advanced programs you can create impressive three-dimensional drawings. When you make mistakes, you don't have to start over and waste hours of work. Just erase the offending lines and try again.

In music, your computer will help you make the most of your talents – or even hide the fact that you have the musical talents of a tone-deaf donkey. Your computer can teach you to read music, or to make music without understanding an ounce of theory.

And if you're a genuine musician, you can use your computer to compose songs, and to drive banks of synthesizers, drums, machines, sequencers, and a veritable orchestra of other instruments.

Program power

Here's one that a lot of people don't think about: that's programming. In older times (oughly, the day before yesterday) all computer owners learned to program because there was very little else to do. Commercial software was rare. Today, the opposite is true and there's no real need to program.

But there are good reasons why you might like to. For one thing, just as ordinary people can write

a best-selling novel, ordinary computer users can write best-selling software. The odds of success are about the same in both cases, but it can be done.

Even if you never make a mint out of machine code, programming can be fun anyway. Languages like Basic and Logo are easy to learn, and powerful enough to write interesting programs. And even the most trivial program can be fascinating when you've designed and coded it yourself.

Whatever you want

Way back in 1982, Bob Lanester wrote: "The reason is a mirror that reflects the personality of its user. One user sees the mirror as an artistic tool. Another sees it as a business accounting machine. Another plays games on it, while yet another sees it to control the ventilators on his hog farm."

Not much has changed since then, except for the better. These days you can do even more with a computer, and it's faster and cheaper than the barge.

Need to know?

Any particular concept or bit of jargon you don't understand? Anything you always wanted to know, but were too embarrassed to ask? Why not write to First Times, New Computer Express, 4 Danes Street, Bath, BA1 1EL. We won't get into private correspondence unfortunately, but the best questions will get answered as these pages. No question too dumb, no subject too simple, and no condescending replies. Guaranteed!

Technobabble

A weekly assault on computer jargon

RS232 • Standards

Ever since Spiting Image immortalised it in "RS2322 Load 20 Cases Songs", the RS232 standard has been a source of amusement to those who know, and yet a source of bewilderment to those who don't.

Set to everyone who has to use it, RS232 is the curse God flung to us over the Egyptians, worse by far than plagues of frogs and locusts. Ordinarily, a "standard" method by which computers can communicate with other devices like printers and modems, RS232 is actually

as non-standard as can be imagined.

Some manufacturers provide 25 pins, some only 9 pins, and even when they provide those pins some only use a few of them, while others use fewer and/or different pins. Some use male connectors, some use female, and some use saddle connectors on the "standard", like RS423 and RS443.

The only course of action with a reasonable chance of success is to crawl into your dealer's, hunting nose

details at his feet, and beg for a cable that will work with your computer and whatever you want to connect it to.

Generally, you will need to come to terms with the fact that the computer industry uses the word "standard" to mean "unique". The two exceptions to this are "industry-standard compatibility", meaning it'll run IBM software, and "the Apple standard", meaning "We've sold more of our kit than anyone else so you'd damn well better do it our way".

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YuppieWare

Filofax-carrier Peter Worlock looks at software aiming to organise you

Computers have always promised – and often failed – to help you get organised. They've been great at organising their send-name mailing lists but not so hot on your personal contacts; they've been brilliant at writing business letters, reports and news, but less impressive for joining quick notes; and they've done a fine job of managing projects involving hundreds of staff, but getting them to remind you of a meeting next Tuesday morning can be tricky.

All of which, no doubt, explains why the ubiquitous personal organiser, the leather-bound Filofax, has enjoyed such a tremendous success.

But what if you could combine the data-processing capabilities of your computer with the ease and convenience of the Filofax? Two packages for the PC aim to do just that.

Daatafax

PC • £59.95 (£79.95 inc GEM 3)

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You have to worry about a company that would deliberately saddle its product with such a bizarre mis-spelt title. But once you get Daatafax loaded, it at least looks better than you'd expect.

The appearance is largely due to the use of GEM, Digital Research's Macintosh-like environment. If you have an Amstrad 1512 or 1640 you already have GEM and can buy the cheaper version of Daatafax, otherwise you'll have to stump up the extra cash because Daatafax will not run without GEM.

Features

You get the three essential Filofax categories: diary, address book, and a notepad. Because of GEM, Daatafax is simple to use, being soon add menu driven. So to load a diary you just click on a picture of a diary!

How are they meant to be used?

The appeal of linking your computer to your Filofax is clear, but how in practice is that actually supposed to work?

The intention behind DataBox and the original Portex appears to be to use them as a way of periodically updating your Filofax. You type in, say, all your names and addresses on computer and end up with a neat printout which goes into the Filofax. You can make written additions to this from time to time and then at

the diary allows you to print one, four or seven days per page, and you simply type in names and accompanying notes as you want. The basic editor is fairly crude, but does allow cut & paste so you can move entries around, and there is a search facility to let you find specific appointments more quickly.

As an adjunct to the diary, DataBox will generate a calendar for you, but this is rather bland: a fixed format with three entries to a page, and although it will highlight dates that are marked in the diary, you can't use different forms of highlighting for different categories of event.

The address book initially has one page for each letter of the alphabet and you must fit just like the real thing. Move the cursor to the start of an entry, then enter name, address, business and home telephone numbers, and a short note if you want. There is a search facility but, amazingly, there is no sorting – it's up to you to make sure you enter names in alphabetical order.

The notepad is a limited but useable notepad editor. You can use cut & paste and search for specific words, and you can choose whether to have 20, 34 or 48 characters per line. But you can't use the standard text attributes such as different fonts and styles like bold and italic, nor can you mix different sizes within the same notepad.

One unexpected and potentially useful feature is the ability to import GEM .IM0 graphics files into your room, although you can't create or alter pictures from within Daatafax itself.

User interface

Because of GEM, Daatafax is very easy to use (but then the features are so basic it could hardly be otherwise). Unfortunately, it doesn't provide all the power of GEM which is a pity – even simple

screen hand-writing and are conveniently rendering your Filofax unusable.

It's hard to see either package being used as a total substitute for a Filofax (portability, even if you were happy to limit it to office use – it wouldn't be worthwhile to load up one of these programs every time you wish, say, to add another diary appointment).

Portex Professional does next page (overcomes the latter problem by being memory-resident).



enhancements to the text would be a bonus.

Documentation

You get a very rudimentary manual (33 pages of sparse type and lots of pictures) which spends a disproportionate amount of time talking about GEM rather than Daatafax. However, again because of the program's limited features, there isn't a lot to say.

Verdict

Daatafax is nice or less exactly as electronic Filofax. You might as well stick to the paper version because using Daatafax on your PC gives you very little that the pen & paper version doesn't.

Yes, you can get neat printouts to stick in your leather organiser, and yes, you can make type things like automatic

date-crude computer searching for a name.

Against that, there's the expense of the software, and the bother of loading it every time you want to make a note, or add a name to your address book. None of the modules is powerful enough to make it worthwhile keeping Daatafax permanently loaded, and printing out sheets for insertion in your Filofax promises to be a ridiculous waste of computing resources.

Oh ... it's also copy-protected – a definite blank

page

•

HIGHLIGHTS

- Easy to use
- Can include graphics

DRAWBACKS

- Makes little use of the PC
- Short on features
- Copy-protected
- Poor value for money

Portex

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Portex was the original Filofax software, earning critical acclaim and more than a few friends in the last couple of years. But it's about to get a new lease of life with the launch of the upgraded Portex Professional – see box.

However, instead of ditching the old (and still extremely useable) version, Showerings has decided to keep it at a vastly reduced price.

Features

Portex offers the same modules as DataStar – diary, address book and notes – but these are far more basic. Because Portex puts the power of the PC to work for you.

The diary, for example, allows you not only to enter dates, times and appointments, but also to repeat entries. So if you specify a birthday as a repeating entry, Portex will automatically insert the entry into the relevant date every year. Or you might enter your six monthly dental check-up and Portex will insert that automatically.

Moreover, you can set up repeating alarms. If you have to do a monthly report, after setting that as a repeating event, Portex will enter it into your diary at the appropriate time each month, but on the relevant day, and every day thereafter. Portex will then flash a message at you until you acknowledge that you've done something about it.

Your diary can be printed out as one, two or four days per page, or one or two weeks per page.

The address book (commonly called a directory in Portex) offers some unusually advanced features. Entries can include surname, first name, title, mobile telephone numbers, fax addresses, organisation name and up to 14 lines of notes. And your file can be sorted by any of the given criteria.

notes, so you could have two versions, perhaps one sorted by individual surname, another by company names.

Finally, there's the notespad, although in Portex case it is closer to being a fully fledged word processor. On screen it looks rather like WordStar, but it uses its own set of control keys. Most of the commonly-used WP functions are included, including search & replace (against DataStar's search only), cut & paste, and various text formatting commands. You can also use various typewriters like bold and underline, but these are somewhat unexpected but welcome functions. See the inclusion of a full 80,000-word spelling checker, and the ability to perform mail merge with files from your address book.

User interface

Although Portex is a very powerful program, it remains easy to use thanks to a well-designed menu-driven control system, and the fact that there is an on-line help facility from anywhere within the program.

Most of the control keys are logical and extensive use is made of the PC's function keypad, but it

HIGHLIGHTS

- Powerful diary features
- Flexible sorting in address book
- Notespad good enough for most WP needs

DRAWBACKS

- Needs to be permanently loaded in order to get full benefit

Verdict

Portex is close to what a computerised Filofax ought to be – a powerful program in its own right that also prints out a Filofax-style paper.

With Portex's features for sorting entries, and automatically handling your diary, you really need to get the benefit of using your PC to manage your personal and business affairs. Any criticism of the program is more a case of extra features missing than to have, rather than essential features missing and most of these are included in the upgraded Portex Professional.



watch for even logging (so you can have phone calls, and professionals charging by the hour or day can calculate the time spent on various tasks); a memory keypads; memory facility; and sundry enhancement to sorts, searches, and diary functions.

You have to wonder why Showerings doesn't go the whole hog and add in more of the DataStar-like features like a news spreadsheet. But given its strength Portex more than can do a lot to get your life in order.

Portex expanded

With Portex Professional, the computerised Filofax comes of age. Showerings has learned a lot from Soltice, Britain's definitive computerised personal organiser, and has gone on to incorporate its best points with the strengths of the Portex original.

To begin with, Portex now works as a memory-resident program, so you no longer have to load up your PC

to use it. You can work in your most common applications software and simply call up the various Portex modules at the press of a key. This alone makes it extremely more useful.

Secondly, if you have a Hayes-compatible modem you can have Portex automatically dial phone numbers from your address book. Other useful features include a step-

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All that RAM

Putting more standards storage in parallel standard configurations for memory. There was a time when the size of the ram of the decade when 16K and 32K dual data was a good basis for a home computer or a small business computer. The 788-80 Models 1 and Commodore PET were good examples of that regime.

These, a couple of years later, when 64K and then 128K drives took over as the workhorses in the office. The young Supercom computers with 128K and 160 x 25 text mode screen, became the natural configuration.

It ain't heavy

If nothing was the computing power of 87, like levels set to be the same in 88. After Jagger comes a STP program from the house that brought you the Word Plus and Timewriters DTP, GST's Timewriters STP Line is designed as an easy entry DTP at the very reasonable price of £449.95. It's a cut-down version of the full Timewriters DTP (DTP Money 7), but still features two fonts in both bold and italic and sizes up to 26 points, can import text and graphics from a variety of PC sources and includes graphics drawing, text flow and word wrap and multiple page views.

What you don't get is any laser printer support, paragraph tags or documents over 38 pages long. GEM is integrated into the product so that you don't get the GEM Desktop Manager, and you still get a half megabyte PC at least twice for £24. Two of the nicest things about the package is that the files are completely compatible with the full product, and should you decide to upgrade the total cost will be little more than the one-off cost of the full package. Find out more from Electronic Distribution on 0954 62528.

At a later date, closer to the printed, and the standard becomes 144K, a single 80x25 x 20 KB hard disk, running MS-DOS. On each occasion, the total generation of equipment you can fit on the adder controller provides the extra economy would make possible. Now, we're consciously told, we must wait for the Amiga 680 and the chance to multi-task our software will come.

There are two points not given, much coverage as all the blather from the box in the big blue. The first is that the main reason you're going to need a 160 is so of economy as a basis for the new machines that 680's need takes 25 KB. The real point is believe a system can be so much bigger and better, like MS-DOS that it reaches four under the RAM.

The second point is that most of these ram rooms is taken up providing multi-tasking. There can be few who don't know what multi-tasking when, and how to do it, because there's a trick inside. Multi-tasking is the ability of powerful micros to run more than one program at the same time. What it actually happens is that the micro-processor shares a second, multi-tasking is not the same as context-switching, which is what happens when you run up a memory resident program such as Solitaire or Topdog. With a 160 program, the multi-tasking is based while the other is running. With multi-tasking, both programs

(or more if you're running them) continue to function at the same time.

The question really is why should a single user need to multi-task? In business, you'd like to want to be in full control of all the applications running on your PC. There's only one way I can think of where you might want to do two things at once. If I include spelling and 100s more words, computer word processor or, for example, running a complex application, on an otherwise unoccupied, I section probably only 5% of users would really want to write complex whilst calculating.

If you're running a network, it will be several users with their own in the 160 doing different things. I am. But 680's probably excludes those other applications. Obviously 680's is much more stable operating system than Windows which already out-shines both well-behaved programs, or AmigaSoft 10 on the Commodore Amiga. The use strategy of today's PC users will have no possible use for it.

Furtive moves

If you're going to hide the workings of your program from prying eyes, or to hide your system from the rest of the people as the offices, or even secret files can be as a form of necessary security. There's a very simple way of doing it. You can use the standard ACCESS characters other than the alphanumeric keys from the keyboard. Like Ctrl, Shift, Del, End, the right and left arrow keys, etc. Then release the ACCESS keys and then release the ACCESS. The last thing you might expect to see is a normal screen with a few extra things, except, you can't know exactly what you get by holding down the 10K key as you can't predict any character in the ACCESS set by trying to ASCII match on the character pair. The following would probably depend on the file.

Volume 8, Article 8, Part 10, 10001

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W10268	10268-000	

SPEX

The Christmas rush

It's almost with us once again - that time of year when boxes of presents flood the shops and trade hand-cashed cash for the latest gameware. Yet, paradoxically, Christmas is coming! In fact, if you believed the huge adsheets which in some cases make certain game executives blurt out 'Christmas already arrived' some time in October!

As far as the software houses are concerned, Christmas is most definitely a season to be jolly by. The fact is, they will more profit in the Yuletide period than at any other time, which means more ribby lads at their press parties.

Out Ran gripes



• US Gold's Out Run - will we do better this Christmas?

Making its appearance last year was US Gold with Out Run. The hype and excitement surrounding the game was incredible. A local shop owner told me it was outselling most other titles 5 to 1, and that practically everyone buying a Spectrum was requesting a copy of Out Run. The game's popularity is enduring. I was amazed to see it's recently re-entered the Speccy top 10. If there's anybody out there who doesn't own the thing! But there's phenomenal success in marketing strategy when you consider the social quality of the game. 2, 3, well, a terrible moment one, a handily captured the speed or destruction of its arcade brother. The game didn't leave a wide price either, which makes most people demand £19.95 in US Gold and beg for it. A definite case of marketing and hype writing an over.

I've got nothing against arcade conversions. I like to machine gun a few of the easier in Operation Wolf as much as the next gal, but let's get off the stage when the inferior box has been out so completely as to the screen. The world run-down conversion seems to guarantee decent sales nowadays.

Wouldn't it be great to see something original and innovative do well on the Speccy this Christmas? Something not borrowed from the arcade, based around a new, fresh player interface? It's up to us to help with our reviews!

And then, if that's failing, it'll go off the shelves before it's released. If you have got any comments, send them in to me at Express!

Gasgoyle remembered

The great thing about the retrospective

and budget re-runs is never knowing the industry in the way it allows a new sector in the accompanying business a chance to sample some unexplored Spectrum action.

I think I was too young to remember Computer Games (now PTQ) early releases the last time around, so even early events of their starting work for Elite in the form of Bloody Dog and 2000Leavers. Looking through their back catalogues, now released on the Web at <http://www.2000leavers.com>, I was surprised to discover that if anything their old stuff is even better, especially in terms of message and originality.

The last Computer Games, Ad Astra, is a strange 3D space offering which is great to play but a bit lacking when compared to their trilogy of laser-shooting goodness in the Big Dog, Big Bang and Marsport.

The first of these two are related, and both feature a quirky-type character called Carterface. He's semi-intelligent as he tries to mind a labyrinth of his own. Out Bang is better than Ad Astra, with well-designed characters, interesting and even loquacious Marsport is another a similar fashion, and has inherited the wacky graphics of the other two.

This time the drama is set in a futuristic alien colony as you control the hero John Marsh, and attempt to rescue some space pirates. Along with the other two, it'll take at least a month to complete.

And then there's Light Force, the site offering from Gasgoyle - a large, colorful space adventure packed quite a few at the time. There's a solid core of escapism under the gassy grape-vine, making it an excellent short-rip.

All the above are set on Deck 0, priced £3.99

Cheat time

Finally a cheat for Cyberoid II, a great sequel to superb Heaven blaster. Another few lines at O W G Y and you'll have infinite lives. Will move you to address the Prevention subcommittee. Robin Alway

Supreme compilation

Just to show they're in this Christmas goodellark, most of the major software houses are offering a selection of value-for-money compilations.

There's a multitude around. Probably the best I've seen is Supreme Challenge. It contains any five games, which aren't fairly poor when compared to the ten and twenty-game packages we offer from Ocean and US Gold. It certainly quality and our quantity with this one though.

The impressive line-up in Elite, ACE 2, Starblitz, Temis and Sentinel. Starblitz was the fast, memory-graphics shoot-em-up which helped to flag a fair few ST and Amiga in its 16-bit incarnation. I wouldn't let that put you off, though. The Spectrum version is brilliant, real fast and forces staff

ACE 2 is probably the weakest game of the compilation. It is a flight sim with unrealistic combat overtones. Temis is an action-packed puzzle game which you'll start off hating, but after 3 or 4 hours' play will admit you're hooked. The Sentinel was released last year to huge acclaim. It's a fascinating and totally original game based around a hide-and-seek theme. I love it. Elite doesn't need much introduction, I suppose. If you haven't played it you haven't lived. Originally released on the BBC (remember that?). It's a complex mix of strategy and delight. Popularity has meant conversion to practically every computer, and you can rest easy in the knowledge that the Speccy version is one of the best. Elite is one of my all-time favourite games, and its inclusion transforms the compilation from a good one to probably the best thing software-money wise you can buy this Christmas. Go on, give your Speccy a treat!

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Absent Acorn

Anybody who has ever attended a BBC Micro User Show will be familiar with the Acorn department - a sort of cross between a caravans bar and a school Tardis meeting held in the sprawling meadowland of the New Forest hotel near Liss, from November 11th - 12th. The show itself was much the same as usual, with one exception - the absence of Acorn itself.

The reason for this was that Acorn were launching their ZXIII box in Cashbridge at the time, and obviously couldn't ignore the launch. Jonathan Pickard for his system used to control photocopies. In my experience you would need at least a Cray 1 to control the average photocopyer, as they spend most of their time sitting in corners.

Most bizarre idea imaginable goes to Jonathan Pickard for his system used to control photocopies. In my experience you would need at least a Cray 1 to control the average photocopyer, as they spend most of their time sitting in corners.

Silent Movie award goes to GRIBBLE. Me? I can't remember what it stands for, either, but I have to say it's a very clever way of analysing industrial processes.

Most Worthwhile idea goes to Mike Topping for his Robot Fishing Area. A robot that can help even severely handicapped people. It is all this, from concept to finance.

It has, however, two drawbacks. Price is over £500 plus VAT (including carriage) and you'll need an A300 at a standard 8-pins dot matrix printer.

On the other hand, the Mass Software Laser Typesetting Program has almost no user interface, but has the ability to reduce all the power of a laser printer.

What is in C using their own compiler, the program is about 100K and full source code is included, so it could be recompiled all over again. The Amstrad 400-line printer prices come down all the time, it could be just the

Alternative awards

The Micro User Innovation awards at the show were decided at the time of writing, so I have decided to give out my own awards.

Most bizarre idea imaginable goes to Jonathan Pickard for his system used to control photocopies. In my experience you would need at least a Cray 1 to control the average photocopyer, as they spend most of their time sitting in corners.

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Bring for people who want quality support, quickly.

Play tip

Here's a handy programming tip. Just CALL 4 in your program to simulate a BREAK without touching the keyboard.

Andrew Brown



MSX show

Not only the MSX user has the opportunity to try out hardware and software, but now you have the choice.

MSX TECH, a Midlands-based user group is organising an MSX show. This is to take place on the 4th December and will be held in the Westgate Shopping Place, Hinckley, Milton Keynes from 10.30am to 3.30pm. For more information phone 0985 674653.

New Philips MSXs

I have some limited details on a range of Philips MSX computers and peripherals that are now available in the UK.

Firstly, we have two MSX 2 computers. The NM5 2220 and NM5 2240, both RAM 128K PIA/M, an on-board MSX program and a built-in 80-column display. The price is £195.00 inc VAT and delivery.

Next we have the Philips NM5 2245. This has 256K RAM, with 128K video RAM, a 720x480 pixel, 15" double-sided disk drive, memory mapping and built-in RAM disk function - and, of course, an 80-column display.

Both machines have 256 colours simultaneously or can display up to 32 colours at 32x32. Both machines have a display of 320x240 or 480x240 pixel screen. NM5 2212 or 225x324 80-column screen. NM5 2245 also has a real-time clock with battery backup, and this machine is priced at £245.00 inc VAT and delivery.

Delivery

There are two fully MSX-compatible postal boxes, the NM5 42140 - a new lower quality machine - and the NM5 42190 - a higher quality machine. Prices have yet to be finalised.

There is a graphics tablet available, the NM5 1140, which has a resolution of 256x256 points, and is connected via the 5-pin joystick port. Price is to be announced.

More hard news

It seems the company selling the hard disk drives for the MSX computers is called Sparrow Soft and based in Holland. They say that the disk interface may be sold separately, which would mean you could then use any cheap and cheerful drive and save yourself a few bob in the process. More facts when they arrive.

Lastly, we have a plug-in board package consisting of the NM5 1250 interface-modem card and the corresponding software. The demo page is the cartridge slot, and supports 720x480 VIDEO/PPISTEL. Features include AUTO DIAL, ANSWER, ANSWER PICK UP, REDIAL, CALL PROGRESS, RINGTONE/MESSAGE/END. Price is to be announced.

For more information on these items - and all other MSX software - write to Nightline Ltd, 125 Weston Road, Cheltenham, Gloucestershire GL5 3JG. Tel: 0285 855245.

Keith Neal

Software support?

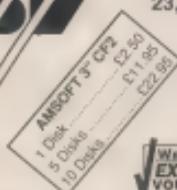
Sony Olivetti have confirmed we're no longer producing software for the MSX. But they give a lot of Japanese software at very reasonable in the UK. 70 plus or support names and addresses when I tried out out.

Keith Neal

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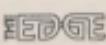
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PSsst!

A last look at the computer scene by cynical old hack, Private Eye

The death of Commodore!

Commodore has gone bust. No, really. It's snuffed it, cashs no more, etc, etc.

And who is the source of this impeccable information? Perhaps these dreaded rats at Atari ever keen to bite the hand that breeds them? Surprisingly not. It's Dixons – or a Dixons salesperson at any rate. It seems that an innocent computer – currently well connected with Commodore, as it turns out – went into a Dixons store with the acceptable intention of buying an Amiga 500.

"Reh – we don't sell 'em any more," he was informed. "Not since they've gone bust."

A couple of years back, Commodore might've reacted in horror at this (and not just because the A500 didn't exist then). In these days, it was running up bank debts so huge that the banks couldn't afford to foreclose, or much in the same lines as the financial world couldn't close Third World countries. Come 1988, it is confident enough to tell such anecdotes against itself.

But it all goes to underline what

Express emphasised last week: that multi-stores such as Dixons are evidently capable of offering relentless drive when it comes to computers.

Merry to the multiples: By all means provide bubble-headed kids with vagueness

gainful employment. By all means have some sort of collective responsibility to the less advantaged in society. But don't for a nanosecond imagine that they can be sensible aids in the delicate matter of buying a computer. Stick 'em in brief: anything more is simply taking antihistamines too far...

The winter of disk intent

Not only is the postatomic bomb nuclear winter somewhere, but we're all thinking Amtrax for our future well-being.

This appears to be the gist of the view from the Civil Defence Authority, which is exercised with such things. For not only has it come down survival plans should the unspeakable do it conceivable, but it is also running its little gauze caboodle from Amstrad PCs. Sorry, any surviving computer hulk will then be wholly justified in running the old "Amstrads over-head" story yet again.

"The survivors will need all the help we can give them and the content of resources will be all important. Our subjects will include funerals (9) and an emergency postal service," says the man with a keen sense of priorities, the boss of CDA Brian Hope.

So when you're down in your bunker, having protected to survive, you can thank the Lord God Sugar for having created PCs cheap enough for the CDA to be able to afford. Not so suddenly AI may be able to get from 0 to 60 in seconds at the drop

Hype springs eternal 3

Quite possibly for the very last time, here is your unrivalled opportunity to parade your understanding of the real meanings of computer terms. This week: Sales & Marketing blurb. What do the following mean?

1. "...and comes complete with a comprehensive manual"

at It doesn't b) There's some implausibly thick book which is exasperatingly incomprehensible, has a weekly inadequate index and is backed with litterate drivel masquerading as writing.

2. "Buy now whilst stocks last"

at I'm going bust b) I've been snatched by a bunch of crooks who loaded me with this load of old tost c) Come back in 6 months and they'll still be here.

3. "Never before have a major software house encountered such a massive"

at You're reading an Activision ad penned by the buffoon who pooped in it, 10.

4. "This is gonna be our biggest seller ever"

at It's demonstrably the weakest of the bunch, so it needs the greatest amount of convincing b) Advance orders stand at 14 c) Well, you should see what the others have sold.

5. "Special Christmas bundle"

at We couldn't get it together in September b) We did get it together in

of an itch, but he does have a certain far-sightedness.

There's one porn every minute

Call a game Sex Vivens From Space, bang on about the supposed naughty bits, chuck some tame, irrelevant stuff on the cover, and what do you get? Well, initially, you get it written on about what a terrific scum the whole silly enterprise is (Express II) and gain a pseudo-table headline ("Shock Sex Hypo Space Probe").

So far, so good. But if you're A-Soft, you then get your games impounded by the soon-to-die of Heathrow airport.

So what do you do then? If you're A-Soft, you backtrack madly, "OK, so the game's been hijacked up, but there really isn't that much sexual content. It's a heck of a lot better than Strip Poker," admitted a chortled boss Tim Harris to trade mag CTW.

But if you're an A-Soft distributor like Precision Software, you go berserk. It's a brutal, fascist regime stopping simple software coming in. The closest you get

to seeing anything in the game is in your head," wailed the firm.

Meantime, the rest of the sensible world chuckles. "If you will play with me..."

How to sniff out trendy offices

The pomposity-named Mediagent, which once went by the perfectly serviceable moniker of Activision, has encountered a little local difficulty with its new premises in oh-so-trendy Reading. Staff, it seems, are complaining about the building's proximity to a sewage works.

Unstable pundits are merely suggesting that such closeness to effluent explains a great deal about its software, its upcoming pile of hits notwithstanding. More sophisticated folk are making analogies with the firm's financial performance, where profits have plummeted to under 1.5 per cent of what they once were.

Mediagent may not exactly be in the er, pits, but then its current position is nothing. We write home about Roll on *Afterburner*. •

Next Week

• Britain's six best-value PCs

We name them and compare them in detail in another unmissable, fact-packed buyer's guide. If you're thinking of buying a computer for serious usage, this feature is an essential read.

• Games which take over your life

Every so often, you discover a computer game which is so totally absorbing, you can do nothing else but play it for months on end. We reveal the programs which have had this effect on us.

• The 12 days of Christmas

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